

CALIFORNIA SCHOOLS



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The cover illustration is a sketch of a portion of the Administration Building on the San Luis Obispo campus of California State Polytechnic College, by R. L. Graves, Jr., Instructor in the Architectural Engineering Department of the college.

CALIFORNIA STATE POLYTECHNIC COLLEGE: Pioneer in Occupational Education

JULIAN A. McPHEE, *President*

Occupationally centered education which stresses preparation to meet actual job requirements is the special function of California State Polytechnic College at each of its three campuses. The original and main campus, now 2,850 acres in extent, is at San Luis Obispo. The college, which is one of California's ten state colleges, has a branch unit in eastern Los Angeles County operating on two campuses, the 157-acre Voorhis Campus at San Dimas, and the 800-acre Kellogg Campus at Pomona.

"Cal Poly," as the college is informally known, was established by the state legislature in 1901 as a state-wide rather than a regional institution. It serves the needs of students from all 58 of California's counties with specialized occupational offerings in its three divisions—agriculture, engineering, and liberal arts—leading to the degree of Bachelor of Science with a major in any of 28 subject fields. The college is also authorized to grant the Master of Arts degree and to recommend candidates for teaching credentials in six teaching fields. The college is fully accredited by the Northwest Association of Secondary and Higher Schools and the Western College Association.

The legislative act which created Cal Poly defined its purpose in these words:

... the purpose of this school is to furnish to young people of both sexes mental and manual training in the arts and sciences, including agriculture, mechanics, engineering, business methods, domestic economy, and such other branches as will fit the students for the nonprofessional walks of life.

The establishing act further stated that

This act shall be liberally construed, to the end that the school established hereby may at all times contribute to the industrial welfare of the State of California.¹

Pursuant to this purpose, the college through its more than half a century of service has sought the realization of four objectives:

1. To prepare students for specific occupations
2. To develop in students the attitudes that will enable them to understand the relationship and importance of the individual and his work to the economic and social responsibilities of citizenship
3. To contribute to the general welfare of the state by providing a continuous program of educational service to agriculture, industry, and education

¹ Chapter 101, Statutes of 1901.

4. To demonstrate the effectiveness of the Cal Poly philosophy and pattern of education

Cal Poly prepares its students for managerial, technical, and teaching occupations by training the hands as well as the head, by adding "know-how" to "know-why." The training is specific and practical. Each year of study is planned to prepare the student for additional jobs in the training area of his major department. Requirements of the job, rather than those of professional graduate schools, determine the educational experiences to be offered to each student. Practical laboratory work under job conditions is emphasized. Students learn by doing. They may also earn while learning through the project system of instruction in which Cal Poly is a pioneer.

In order to make maximum use of the student's interest in his field of specialization as an incentive to study, and also to ensure job preparation for the student who cannot spend four years at college, work in the major department is begun in the freshman year. The course of study, therefore, is "upside-down" in comparison with the conventional college program. The college seeks to make the student aware, through early contact with the practical phases of his major subject, of the value to him of courses in the sciences and the advantage of applying himself diligently to the study of these and other basic subjects. The general education courses which supplement the occupational instruction are offered in each of the four college years.

Cal Poly accepts responsibility not only for the occupational education of its students but also for helping them to obtain the best possible opportunities for careers. Through follow-up visits to the graduate and his employer, the college also provides on-the-job assistance to the Cal Poly alumnus during his first years in the field.

ESTABLISHMENT OF THE COLLEGE

Under the name of California Polytechnic School, Cal Poly opened its doors to students for the first time on October 1, 1903. When the cornerstone for the administration building was laid on January 31 of that year, the road to the campus was a wagon track through a muddy field. On the opening day, the main building was not completed and the debris left by the builders had not been cleared from the dormitory. Nevertheless, Director and Mrs. Leroy Anderson moved into the dormitory and called together the three faculty members and 15 students to meet in the unfinished parlor of the building.

This beginning, humble and small though it was, had been attained only after long effort. The first bill to establish a polytechnic school at San Luis Obispo had been introduced in the California State Legislature in 1895 by Senator S. C. Smith of Bakersfield, but the Legislature adjourned without taking action on the bill. In 1897 another bill by Senator Smith was approved by the Legislature, but was pocket-vetoed

by Governor James H. Budd. In January, 1901, Senator Smith again introduced his bill in the Senate, and it was also introduced in the Assembly by Warren M. John of San Luis Obispo. The Senate bill was passed by both houses and was signed by Governor Henry T. Gage. The school was governed until 1921 by a local board of trustees appointed by the governor. In 1921, control of this institution, as well as of the state schools for the deaf and blind and the state teachers colleges, was transferred to the State Board of Education.

No level of instruction was specified in the legislative act which created the California Polytechnic School. It opened as a state vocational high school in keeping with the educational concepts of the time. In 1927, because district high schools were providing vocational education along agricultural and industrial lines at the same level as the Cal Poly program, it was found necessary and desirable to raise the level of instruction at Cal Poly to that of a junior college. In 1929 the enrollment of new students was limited to young men.¹ In 1933 the institution was changed from a junior college to a two-year technical college offering terminal instruction in agricultural and industrial fields. In 1936 a third year of terminal instruction was added, and in 1940 a fourth year, and the college was authorized by the State Board of Education to grant the Bachelor of Science degree. The first baccalaureate exercises were held in 1942.

The Voorhis Unit of Cal Poly came into being in 1938, when a two-million-dollar school and farm, completely equipped, were deeded to the college by the owners, Charles B. Voorhis of Pasadena and his son, former congressman Jerry Voorhis, for the express purpose of providing an expanded program of collegiate occupational training. This campus, designed for 150 students, has grown to the point where every facility is now taxed by enrollment of more than 400 students who have been drawn there for the study of animal husbandry, fruit production, general crops, horticultural services and inspection, ornamental horticulture, and soil science.

The Cal Poly approach to collegiate occupational training was again recognized by a substantial gift in November, 1949, when the W. K. Kellogg Foundation donated to the college its 800-acre Arabian horse ranch near Pomona. This property, valued at \$4,000,000, was deeded to the State of California to be used for occupational training consistent with the philosophy and educational objectives of California State Polytechnic College. The Kellogg ranch and the Voorhis campus are now operated as the "Kellogg-Voorhis unit."

ADMINISTRATORS OF THE COLLEGE

During the first half century of development, the college has had seven administrative heads. The first director, Leroy Anderson, served from 1902 to 1907. He was succeeded by Leroy Burns Smith who had

¹ Chapter 282, Statutes of 1929.

charge until 1914. Robert W. Ryder was appointed director in 1914 and was followed in 1921 by Nicholas Ricciardi who served until January, 1924. Miss Margaret Chase served as acting head from January, 1924, to June, 1924. Benjamin R. Crandall was president of the college for ten years from 1924 to 1933. The incumbent president was appointed in 1933.

PRESENT INSTITUTION

The college this year is serving 2,259 students at San Luis Obispo of whom 987 are in agriculture, 1,039 in engineering. Of the 233 majors in liberal arts, 49 are graduate students. The Kellogg-Voorhis unit has 423 students, bringing the total college enrollment to 2,682. The locations of the homes from which the students come indicate clearly the more-than-regional character of Cal Poly's service area. Of the students on the San Luis Obispo campus, more than 83 per cent come from 53 California counties, 8.7 per cent of the students come from 22 other states, and 7.9 per cent from 31 territories and foreign countries. More than 93 per cent of the students at the Kellogg-Voorhis unit come from 24 California counties, 2.8 from 8 other states, and 3.8 from U. S. territories and foreign countries.

Students and instructors at San Luis Obispo work on a ranch-style campus of some 2,800 acres—a sharp contrast with the 281 acres with which the college began. Additional land purchases brought the campus to a total of 1,113 acres by the time the college was 15 years old. The only addition to the campus during the next two decades was the 175-acre Fiscalini ranch purchased in 1929. Although four small purchases were made during the 1940's, the college's holdings at San Luis Obispo totaled only about 1,250 acres at the close of the decade. The first four years of the 1950's, however, brought the purchase of the Peterson, Serrano, Cheda, and Irwin ranches, with a combined area of 1,585 acres, thus more than doubling the ranch-style campus.

On-campus housing is available at San Luis Obispo for 1,340 single men and for 263 families. The single men are housed in 21 dormitories of which five, each accommodating 96 men, are now in only their second year of use. Many students live in off-campus quarters.

FACULTY

In the last 20 years Cal Poly has increased its faculty from 20 to 201. Distribution of the teaching staff according to degrees finds approximately 20 per cent with the doctorate, 45 per cent with the master's degree, and 30 per cent with the bachelor's degree. Because the primary emphasis in occupational instruction is upon mastery of the use of knowledge in practical working situations, the college selects faculty members who have had successful and extended work experience in the occupational fields in which they will teach, as well as sound academic training in those fields.

TRENDS IN ENROLLMENT

The current enrollment of approximately 2,300 on the San Luis Obispo campus is expected to increase to 2,700 next year and to 3,000 by 1955-56. Steady growth to an enrollment of 3,600 students in 1959-60 is forecast. Part of this growth is to be achieved through resuming the admission of women students, operating Cal Poly on a coeducational basis as it was before 1929.

PROGRAM OF THE COLLEGE

The college applies its practical methods and philosophy of higher education to all its instruction, which includes, on its main campus, the divisions of agriculture, engineering, and liberal arts.

The Division of Agriculture offers majors in agricultural engineering; animal husbandry; dairy husbandry and manufacturing; field, fruit, and truck crops; ornamental horticulture; poultry husbandry; and soil science. Majors offered by the Division of Engineering are in aeronautical engineering, air conditioning and refrigeration engineering, architectural engineering, electrical engineering, electronic and radio engineering, mechanical engineering, and printing. Supporting courses in engineering include machine shop and welding.

Majors in the Division of Liberal Arts are offered in agricultural journalism, biological science, health and physical education, mathematics, physical science, and social science. Supporting courses are offered by departments of English and public speaking, education and psychology, music, and military science and tactics.

INSTRUCTIONAL PHILOSOPHY AND METHODS

Throughout its occupational education, Cal Poly uses the "upside-down" curriculum in which the student begins work in his major department in his freshman year and is given ample instruction in the practical phases of his field of specialization during the first two years of his course.

By enabling the student to get right at the primary thing for which he came to college, the "upside-down" plan keeps him from feeling thwarted by numerous hurdles which at first seem to him unrelated to his interests. The Cal Poly plan also helps the student to develop interest in theory and background courses which are taken concurrently or after his practical instruction. He is able to see from his own experience with his major subject why he needs the supporting courses.

Another important advantage of the unconventional curriculum is that it enables the student to earn a living, using the skills he has learned, at whatever point he may be forced to leave school. This educational pattern definitely improves the immediate earning capacity of those students, who, for various reasons, complete their formal education after one or two years of college, as so many of them in all colleges do. If

the student is able to complete the four-year course, his opportunities for success in the more highly paid positions will be greatly increased.

Spreading of general education courses throughout the four college years instead of grouping them in the first two also is made possible by the "upside-down" plan. Thus students take the more advanced general courses in the later years when they are better prepared to appreciate what they are studying.

To make its occupational education practical and effective, Cal Poly has developed the "learn by doing" method of instruction. Students practice in the laboratories and shops and on the college ranch the techniques they have studied in the classroom. When, after college, the students start work on their jobs, they have the confidence that comes from experience and know-how.

THE PROJECT SYSTEM

Closely associated with "learn by doing" instruction is the project method of teaching in which Cal Poly has pioneered. The project system consists of self-owned or managerial projects operated by students in such a way as to give knowledge in the commercial production and marketing of agricultural products or in the construction, rebuilding, repair, or maintenance of industrial machinery and equipment on an equally commercial basis. This combination of the very practical "learn by doing" and "earn while you learn" philosophies not only enables a student to earn money while doing work directly related to his major academic interest, but also creates an added incentive for the more rapid acquisition of further skills and knowledge to the end that the projects will be more profitable.

In each major department students are encouraged by their instructors to take part in project activities, either individually or as a group. A revolving fund for projects is available from which students may borrow money for an investment in livestock, ornamental plants, seeds, feed, machinery to be rebuilt, etc. No cosigner is required for a student who borrows from the project fund, and the fund is so operated as to guarantee the individual student against loss from project operation.

The most popular agricultural projects are those of fattening livestock, raising beef, sheep, swine, or dairy cattle; conducting individual dairy projects or working as members of a group in management of a dairy herd; operating a poultry unit as a project; growing ornamental or field and truck crops.

The field of engineering also makes use of the project method, as is illustrated by the radio-repair service project operated in the Electronics and Radio Engineering Department and by the student-operated program of repair and maintenance of campus air-conditioning and refrigeration equipment.

Another feature of Cal Poly's educational method is its insistence that supporting courses in its curriculum must be closely correlated with

major instruction. Three methods are used to ensure that supporting courses really support. These courses are systematically studied by committees made up of instructors who offer the courses, working with those instructors whose majors enroll in them. Major courses are so developed as actually to make use of the prerequisite supporting material. Supporting courses are so developed as to make certain that they provide the support determined to be essential.

STUDENT ACTIVITIES

Supplementing formal instruction in the teaching of citizenship and leadership at Cal Poly is a system of student government which controls a wide range of campus activities. Student government, through four boards of control, operates the college-wide activities—athletics, music, publications, and “Poly Royal,” the two-day open house staged by students annually.

The Poly Royal is a unique event nationally known as “the country fair on a college campus.” The crowd of visitors it attracts annually overflows the capacity of hotels and motels in San Luis Obispo and vicinity. Among the Poly Royal attractions are exhibits of the work and facilities of all the college departments; a country fair carnival; a giant barbecue; stock-judging contests for farm centers in San Luis Obispo and adjoining counties; a nail-driving contest for women; flower, poultry, and livestock shows; a swimming meet; farm equipment demonstrations; and an intercollegiate rodeo.

Cal Poly’s activity program is rounded out by the operations of a group of special-interest clubs, including student chapters of many professional societies. The faculty and administration of the college provide guidance for the activity program through an activities officer, an assistant activities officer, and faculty sponsors for each activity, all working in conjunction with the office of the dean of students.

ENTRY INTO INTERCOLLEGIATE ATHLETICS

Athletics became a part of the life of the college in its early years. Intercollegiate competition was begun with a Rugby game against the University of Southern California in 1911. Five years later Cal Poly switched to the American style of football, as did most Pacific coast colleges.

A full program of intercollegiate sports developed gradually until now Cal Poly fields teams in football, basketball, baseball, cross country, track, swimming, water polo, golf, tennis, gymnastics, soccer, boxing, and wrestling. The Boots and Spurs club, made up of majors in the Animal Husbandry Department, has developed an intercollegiate rodeo team. Since 1946 the college has been a member of the California Collegiate Athletic Association.

Intercollegiate athletics have not been overemphasized but have been maintained on a basis of sportsmanship and recreation. The result has been that Cal Poly has had its good teams and its poor ones, with its share of victories and its share of defeats. The most successful year probably was 1953 when the Cal Poly football team was undefeated in winning its second consecutive California Collegiate Athletic Association championship and its boxing team won the Pacific Coast Intercollegiate championship.

ACCREDITATION

California State Polytechnic College has been fully accredited by the Northwest Association of Secondary and Higher Schools since September 1, 1948. The Western College Association has granted Cal Poly full accreditation for the five-year period ending in 1956. The college is fully accredited by the California State Board of Education for a five-year period, ending June 30, 1956, to offer training leading to the following credentials: General Secondary Credential with majors in agriculture, health and physical education, life science and general science, mathematics, physical science and general science, or social science; Special Secondary Credential in Vocational Agriculture; Special Secondary Limited Credential in Agriculture; Special Secondary Credential in Physical Education. The American Association of Collegiate Registrars and Admissions Officers reports that Cal Poly has an "A" rating among the members of that association.¹ The "A" rating means "Transcript of record given full value," and this applies to college units earned at levels up to and including that of the master's degree.

TEACHER EDUCATION

The college is also a teacher-training institution, although it differs from the other state colleges in that it did not have its beginning as such an institution. When state colleges were authorized in 1946 to give a fifth year of instruction, Cal Poly, which for many years had offered skills and methods courses for agriculture teachers, was accredited by the State Board of Education to recommend its graduates as candidates for the Special Secondary Credential in Vocational Agriculture and the Special Secondary Limited Credential in Agriculture. Early in 1947 the State Board of Education approved the Cal Poly program for training prospective physical education teachers and authorized the college to recommend candidates for the Special Secondary Credential in Physical Education.

In April, 1928, the State Board of Education authorized the college to recommend its graduates for the General Secondary Credential with a major in any of the following fields: social studies, mathematics, physi-

¹ *Report on the Credit Given by Educational Institutions, 1952*, edited by Ronald B. Thompson, Ohio State University, published by American Association of Collegiate Registrars and Admissions Officers, 1952, p. 6.

cal science and general science, life science and general science, agriculture, and physical education.

The college was approved on October 1, 1949, to grant the Master of Arts degree in education with concentrations in agriculture, biological science, mathematics, health and physical education, physical science, and social science.

Despite its late entry into the field as a full-fledged teacher-training institution, 165 of its graduates have been recommended for the vocational agriculture credential, 29 for the limited agriculture credential and 54 for credentials in other subject-matter fields. Currently, 118 students are preparing for the vocational agriculture credential, 17 for the limited credential in agriculture, and 40 for credentials in other subjects.

STUDENT PERSONNEL SERVICES

The student's education through formal course work is supplemented also by the efforts of well-staffed counseling, testing, and health centers under direction of the dean of students. Another student service is provided by the placement office.

Counseling Service

A Counseling Center is maintained to aid the student in understanding himself and to give the advisers and instructors information to help them advise their students. The counseling service consists of occupational, educational, and personal counseling, which is provided for all the students who request it and also for those referred to the Center by faculty members. The procedure consists of interviewing, testing, and providing occupational information. Emphasizing preventive rather than remedial counseling, the Center interviews most new students during their first year.

The Counseling Center also provides precollege counseling service for prospective students. The emphasis in this area is on aiding students in choosing the most appropriate major based upon their interests, abilities, personal traits, and background.

Testing Service

Entering students are given a battery of placement tests that is designed to indicate subjects and sections in which they will have the best chance for success. The series includes tests of academic aptitude, tests in reading, mathematics, English, agricultural mechanics, animal husbandry, and chemistry, as well as personal inventories and interest inventories.

In addition to administering the entrance placement tests and those used by the counseling center, the Testing Center also administers, scores, and interprets interest and reading tests for any student who requests this service; corrects tests for the remedial reading classes; aids

in administering and correcting a battery of tests used in the selection of prospective teachers; and administers tests for Selective Service and other special tests for the Educational Testing Service¹ on a regional basis.

The Testing Center also provides assistance to instructors in improving their regular course tests, by item analysis of test results, by supplying sample test items, and by providing samples of standardized tests for various departments.

Health Service

The Cal Poly Health Center is a member of the American College Health Association. It gives each student a complete health examination on his admission to the college. Any unusual findings which may influence the student's welfare either while he is a student or in later life are carefully investigated and steps are taken to correct the conditions. The facilities consist of a well-equipped hospital and clinic located in one building. It is recognized as a registered hospital by the American Medical Association and is operated on a 24-hour basis when the college is regularly in session. The student health service is responsible for the environmental sanitation on the campus. Sanitary inspections are made in the food preparation and dining areas on at least a weekly basis. Inspections of the dormitories and other campus areas are made periodically.

Placement Service

The Placement Service assists students in obtaining part-time and summer employment to meet college expenses and in finding the most desirable permanent employment possible at graduation. It also provides a continuous follow-up program with graduates and their employers.

An effort is made to place students in part-time jobs that have some relationship to their major fields of interest. This provides additional opportunity for students to make practical use of their education and to prepare for full-time work in a field of major interest after graduation. Of equal importance is the development of proper work habits and attitudes in each individual. To encourage this, the college has established a policy of providing supervised work experience for a maximum number of students by employing them in phases of campus and farm operations. The Placement Service maintains constant contact with employers in agriculture, industry, and business to develop summer job opportunities for students in their various fields of interest.

Graduating seniors are given opportunities to investigate possibilities of employment through interviews with representatives of companies in

¹ Educational Testing Service, a nonprofit corporation of Princeton, N. J., with a western office in Los Angeles, operates co-operative testing programs for educational institutions and organizations, and conducts confidential examinations for the armed services and the Selective Service System.

California and many other parts of the country who come to the campus for these interviews.

FUTURE PLANS OF THE COLLEGE

Progress must be made rapidly toward realization of Cal Poly's entire master building program if the college is to provide the ever-increasing opportunities for higher education sought by the young people of the state. Although the college has some excellent buildings, such as its administration and classroom building, physical education building and swimming pool, library, dormitories, and farm buildings, including dairy and poultry units recently completed, it is badly in need of permanent classrooms. Only 23 of the 90 classrooms now available have been approved by the State Department of Education as meeting permanent classroom requirements. A total of 167 permanent classrooms will be required for the enrollment predicted for 1960, to meet the standards of adequacy recommended by the presidents of the state colleges. Cal Poly, therefore, must build 144 additional classrooms in the next six years to bring its physical facilities to the standard agreed upon.

In addition to the buildings already named, permanent facilities of the college now include an air-conditioning and refrigeration engineering building, machine shop, greenhouses for ornamental horticulture, stock-judging pavilion, airplane hangar, farm machinery shop, meat laboratory, and feed mill. Under construction and to be occupied late this spring is a new heating and power plant and mechanical engineering laboratory. Site clearance has begun for a science and classrooms building to cost some \$2,400,000, for which the State has provided funds. Other improvements for which state funds are now available are a women's physical education facility, an agricultural engineering and mechanics building, and site development for an ornamental horticulture unit.

Other buildings to be constructed and facilities to be developed (listed here in the order of their priority in the college's master plan) are the following: engineering building; agriculture classroom building; men's dormitory unit and cafeteria; home economics building; aeronautical engineering and industrial shop; a unit of women's dormitories; men's physical education facilities; health center; a second unit of men's dormitories; auditorium and music building; classroom building; president's home; a second unit of women's dormitories; food processing building; maintenance engineering building; an additional engineering building; "corporation yard" facilities; cafeteria, kitchen, and student activity building; swine and sheep pavilion; crops field house, administration building; a third unit of men's dormitories; welding and industrial arts building; library annex; residences for 24-hour employees; stadium, track, and field; additional facilities for poultry husbandry; additional facilities for ornamental horticulture; and a beef cattle breeding unit.

Larger enrollment is predicted also for the Kellogg-Voorhis unit at San Dimas and Pomona. The present enrollment of some 400 students is expected to increase to 700 by 1955-56 and to 1,000 the following year. Planning for the Kellogg-Voorhis unit is based on an estimate of 1,500 students in 1958-59, 2,000 by 1959-60, and 3,600 by 1964.

Land and facilities at the Voorhis campus are adequate only for the present Kellogg-Voorhis student body of a little more than 400 students. To accommodate increased enrollment, to prepare for the admission of women students, and to make diversification of the curriculum possible through addition of instruction in engineering occupations, home economics, and other subject fields in which needs develop, a complete educational plant must be constructed on the Kellogg campus. The master plan for this campus includes buildings and other facilities for science instruction, health and physical education, business education, home economics education, agriculture classrooms, agricultural engineering, agricultural units, engineering occupations, library, administration, cafeteria, dormitories, and "corporation yard." The State already has set aside \$3,000,000 to start this construction.

CONTRIBUTIONS OF THE INSTITUTION

The contributions of Cal Poly to the State of California and to the nation are best revealed in the achievements of the thousands it has trained to serve in agriculture, in education, and in industry. The college has been a major source of trained manpower for agriculture and through its many former students in this occupational field has helped California to push forward in scientific farming.

Graduates in Agriculture

Most of the alumni are engaged in production as owners or managers of ranches, hatcheries, nurseries, and dairies, but the following representative list of other jobs held by graduates of the college indicates the breadth of the occupational field which is opened by the type of agricultural instruction offered at Cal Poly:

Farm editor, Modesto *Bee*
Head of University of Florida's animal husbandry and nutrition program
Agricultural equipment manufacturer
Superintendent, San Francisco stock yards
County farm adviser
Assistant, National 4-H Club Foundation
Field representative, Rice Growers Association
Head Gardener, Los Angeles Board of Education
Field superintendent and co-owner, Merit Packing Company
Field editor, *Pacific Stockman*
Senior Agricultural Inspector, Stanislaus County
Marketing economist, California State Department of Agriculture
Farm adviser, California Milling Corporation
Dairy Inspector, State of California
Cotton gin manager, Anderson, Clayton and Company

Agronomist, Brea Chemicals, Inc.

District supervisor, Dried Fruit Association of California

If you visit the agriculture department of a California high school, the chances are fifty-fifty that you will meet a Cal Poly graduate teaching there. In 9 of 10 high school agriculture departments you will find a teacher who has studied for at least five months at Cal Poly.

Graduates in Business and Industry

In accordance with the legislative act creating the college, which specified as one objective that it "may at all times contribute to the industrial welfare of the state," Cal Poly has been sending its recruits into industry and business throughout its half-century history. The degree to which the college continues today to be a substantial source of trained personnel for business and industry is indicated by the fact that some 200 companies send representatives to the campus each year for employment interviews with members of the senior class. Included among these companies are many of the largest in California as well as nationally known industrial corporations from other states.

Alumni in business and industry are serving in a tremendously wide range of capacities. The full list of them would read like a catalog of contemporary occupations. The following list of positions held by Cal Poly people is offered merely as indication of the variety and significance of their achievements:

Control designer, General Electric Company

Flight engineer, Pan American Airways

Resident manager, branch office, Pacific Northwest Company

Manager, Palmdale Irrigation District

District sales manager for six western states, Duncan Electric Manufacturing Company

Color television development engineer with the National Broadcasting Company

Foreman for Peter Kiewit Sons on construction of Garrison Dam

Vice president, International Correspondence Schools

Technical secretary, American Society of Refrigerating Engineers

Vice president in charge of operations, Delaware, Lackawanna and Western Railroad Company

Pilot, American Airlines

Instrumentation engineer, Shell Development Company (developed new viscometer for quality control)

President and owner, Portable Aluminum Irrigation Company, "world's largest" manufacturers and distributors of irrigation equipment

Principal electrical engineer, Department of Water and Power, City of Los Angeles

President and general manager, Earth Equipment Company

Chairman of the Board of Directors and director of the Tube Research Laboratory, Varian Associates (co-inventors of the Klystron tube, an important improvement in radar operations)

Cal Poly alumni have two qualities in common for the development of which the college can accept credit: they are active in civic affairs

(two alumni are mayors of California cities), and they are occupationally stable. Of Cal Poly alumni who have received teaching credentials in fields other than agriculture, 68.5 per cent are now teaching. This figure is well above the average for occupational stability among teachers but is low compared to the statistics for Cal Poly's agricultural and engineering alumni. Of agricultural graduates, 95 per cent are in work for which their college education was direct preparation, while 95.3 per cent of the engineering graduates are employed on jobs to which their college training is directly applied. The Cal Poly student prepares himself for an occupational field and then, except in rare instances, uses what he has learned to achieve a life-time career.

CONSERVATION EDUCATION WORK CONFERENCES¹

Invitations signed by Superintendent of Public Instruction Roy E. Simpson and President Robert Gordon Sproul of the University of California have been sent to California county superintendents of schools and to a group of city superintendents of schools requesting their participation in the Second Conservation Education Work Conference which will be held at the Idyllwild School of Conservation and Natural Science at Idyllwild, Riverside County, May 27 to 29, 1954. The suggestion was made that each superintendent send three persons to the conference—one elementary teacher, one secondary teacher, and a member of the central office staff.

REPORT OF THE 1953 CONFERENCE

The First Conservation Education Work Conference was held at the University of California, Berkeley, June 10 to 12, 1953, under the sponsorship of the State Department of Education and the University. Continuation of such annual conferences is expected to develop leadership among school personnel in the furtherance of conservation education programs in the schools of the state.

The purposes of the 1953 conference were (1) to review the year's developments in school programs dealing with education for conservation and wise use of resources; (2) to exchange information relating to experience in using various kinds of instructional materials and activities in education for conservation and wise use of resources; (3) to encourage and assist school personnel in the counties of the state in the development of education for conservation and wise use of resources; and (5) to provide an annual review and evaluation of the program of the State Department of Education in this field.

Each group of county delegates brought to the conference a selected sampling of conservation materials that had been found useful in furthering conservation education. These materials were applicable in elementary and secondary programs of instruction. Each county delegation also brought descriptions of various approaches to conservation education which had proved successful. The materials were arranged in an exhibit that added immeasurably to the success of the conference, and the county reports were discussed in the first general session.

Attendance at the Conference

Thirty-three persons were in attendance at the conference. Twenty were representatives of the offices of county superintendents of schools. Three participants were teachers in elementary and secondary schools.

¹ Report prepared by Bernard J. Lonsdale, Consultant in Elementary Education, California State Department of Education.

Staff members for the conference were representatives of the University of California, Berkeley; the California State Department of Education; the California Department of Natural Resources; the California Department of Fish and Game. E. Laurence Palmer, Director of Conservation Education for the National Wildlife Federation and Professor Emeritus of Conservation and Rural Education at Cornell University, served as consultants.

How the Group Worked

The purposes of the conference were furthered through general sessions, section meetings, and field trips. The first general session was devoted to reports by the participants of developments during the year in school programs in the various counties dealing with education for conservation and wise use of resources. For the section meetings the participants divided into three study groups, each of which had a leader and a recorder. At the last general session, reports of the discussions in the study groups were given and each group made recommendations related to the conference.

Action Programs Were Reported

Reports of the programs in operation in the various counties indicated that numerous opportunities were provided for boys and girls to engage in activities which would further the goals of conservation education. All of the persons reporting referred to the conservation learnings which were inherent in the social studies programs, and the following activities were also described:

- Camping and outdoor education
- Study trips
- Maintenance of school forests
- Beautification programs (planning, planting, care)
- Operation of school farms
- Planning and using nature trails
- Maintenance of fish ponds
- Landscaping of school grounds
- Bicycle-club trips into the surrounding area

Nearly every county delegation which made a report indicated that there was a planned program for the in-service education of teachers in the area of conservation education in their county. Among the in-service activities noted as effective for this purpose were the following:

- Institute programs
- Workshops
- Conferences
- Study trips
- Publishing bulletins
- Making of resource units for reference by teachers
- Meetings of curriculum committees of teachers, supervisors, and administrators

The participation by parents in the conservation education program through the organization and work of a community council was described by one county.

A Look Ahead

The three study groups defined problems related to the improvement of conservation education. The pattern of activity in the study groups varied. Descriptions of practices, obstacles to progress, proposals for action, and recommendations all played a part in the discussions.

Of particular interest and value were the specific recommendations of the study groups and the evaluation at the final session which gave direction to the conference committee for future planning. The following program of action was suggested:

- Planning a second Conservation Education Work Conference in the spring of 1954

- Extending the participation in the second conference to additional counties and cities

- Encouraging participation in the conference by key teachers from representative school districts

- Stimulating the development at the local level of long-term conservation education plans

- Encouraging regional and local conferences and workshops

- Making available qualified specialists to assist in developing long-term plans and in planning regional and local conferences and workshops

The effectiveness of the First Conservation Education Work Conference is indicated by the numerous descriptions of activities carried on in participating counties during 1953-1954. The leadership for these activities has been provided in most instances by persons who attended the conference. The following paragraphs present typical descriptions of activities which have been reported to the State Department of Education.

In the issue of the *Riverside Enterprise* for October 7, 1953, the following story appeared:

COUNTY-WIDE TEACHER GATHERING PROBES AREA'S CURRENT CONSERVATION PROBLEMS

by Ernest Maxwell

IDYLLWILD, OCTOBER 6. Wise use of the nation's natural resources is being boosted a notch higher on the education scale this week following 252 County teachers' participation in last weekend's conservation institute arranged by the County Superintendent of Schools' Office and a teachers' committee.

For the institute conservation workshop held on the campus of the Idyllwild Arts Foundation the planners brought industry, government and education together for a good look at issues relating to conservation of water, minerals, forests, soil, and wildlife.

The pattern proved so successful that similar workshops are to be urged for other counties, State Department of Education consultants indicated.

"I have attended many one-day conservation workshops for teachers throughout the state, and this meeting has been, beyond question, the best in all respects," claimed Ed Dolder, chief of conservation education for the California Department of Natural Resources.

Arranged much as a county fair, groups of teachers were guided during the day from section to section where some phase of conservation was described and demonstrated by authorities representing all the resources.

The problem of supplying water to Southern California was explained to the teachers by Rufus S. Fee, field secretary for the Metropolitan Water District of Southern California. Fee described the unwise use of water in previous decades that depleted Southern California's underground water supply, and explained the need for research and long-range planning to import water for the five counties now served by the MWD. The water agency official told teachers that five years ago water was listed as the number ten resource. Today, it is first in California.

What smog does to agriculture and the need for controlling plant damage from chemicals was demonstrated by Dr. Ellis Darley and Howard Cook of the University of California at Riverside. Teachers watched a smog-making apparatus curl the leaves of bean plants at the institute and learned of the important role played by certain insects in controlling plant pests.

"Conservation of its once-clear atmosphere is one of the most pressing problems now confronting Southern California," said Darley. "The concentrations of air pollutants commonly called smog not only irritate eyes and create a health hazard, but also harm many crops that constitute an important part of the Southland's agricultural economy."

The importance of long-range planning and wise use of raw materials was stressed by John Sauer, representing the Riverside Cement Company.

The demonstration offered by Stuart Button and Basil Binckley of the Kaiser Steel Company also pointed up the importance of conservation and wise use of mineral resources in modern industry.

The plight of the bee in a land where humans are upsetting the balance of nature with strong insecticides and mass removal of vegetation was discussed by beekeeper Arthur Curtin and by Paul Beatty of the County Superintendent of Schools Office.

What is involved in protecting watersheds from fire and the policy of multiple use were demonstrated by units from the State Division of Forestry and the U. S. Fire Service.

The problem of maintaining suitable range for California's wildlife resource was presented by the Riverside County Fish and Game Commission, with emphasis on the importance of outdoor recreation in the modern scheme.

Others who participated included the U. S. Soil Conservation Service, Department of Natural Resources, and the following schools: Corona, Hemet, Nuview, Elsinore, Coachella, Banning, Twin Pines, Palm Springs and Idyllwild.

The workshop was directed by a teachers' committee headed by Eleanor Dunn, Idyllwild, and Clayton Kay of the Riverside County Superintendent's Office.

Whether the teachers retain the vast amount of information offered them is not important to one industry official present at the Idyllwild meeting. He was impressed with the teachers' willingness to spend a free day learning something about the work of other people.

A digest of a meeting of the staff of the Santa Barbara County Superintendent's Office indicates the ways in which plans are being developed in this particular county.

Representatives of the State Department of Education, Department of Natural Resources, and the Department of Fish and Game participated in the meeting with the members of the Santa Barbara County Superintendent's staff. Past programs were discussed and evaluated. The possibility of a tri-county conference on Conservation was discussed. It was suggested that the conference should be for public information as well as for teacher education. The time for the conference would be either in the fall of 1954 or the spring of 1955.

The matter of outdoor education was discussed. It was suggested that pilot programs be tried with interested schools. The forest service camp at Los Prietos was suggested as a possible place. Plans were initiated to take groups of teachers on weekend camping experiences for orientation.

The following projects were discussed for elementary and secondary schools: school forests, school landscaping, school gardens, game management, experiments with marine fisheries, and roadside rest areas. A date was set for planning with the other two counties that would be involved in the tri-county conservation conference.

It is anticipated that the Second Conservation Education Workshop will continue to develop comparable leadership in counties and cities and stimulate further activities in the area of conservation education.

Further information regarding the second conference may be secured by writing to Professor S. E. T. Lund, School of Education, University of California, Berkeley.

DEPARTMENTAL COMMUNICATIONS

DIVISION OF STATE COLLEGES AND TEACHER EDUCATION

JAMES C. STONE, *Specialist in Teacher Education*

COMMITTEE ON REVISION OF CREDENTIAL REQUIREMENTS FOR TEACHERS IN THE FIELD OF SPECIAL EDUCATION

A representative, state-wide committee was appointed on January 7, 1954, by Superintendent of Public Instruction Roy E. Simpson to study the qualifications needed by teachers of special education classes and to make recommendations for revision of the requirements for the six existing credentials in this field.

Legislation passed at the 1953 session of the California Legislature makes it mandatory on and after September 1, 1955, for teachers of special education classes to hold a special teaching credential authorizing the teaching of such classes.¹ The State Board of Education will prescribe minimum standards for such credentials and also the services authorized thereby.

At present, a special secondary credential is provided for the following types of teaching: correction of speech defects, teaching the mentally retarded, teaching the blind, teaching the deaf, teaching lip reading, and teaching the partially-sighted child. The holding of a special credential has not been mandatory except in classes for correction of speech defects and for the mentally retarded. Since the requirements for these credentials have not been revised for many years, a thorough study of the requirements in the entire field of teaching physically handicapped and mentally retarded children is deemed necessary so that the credential specifications may be revised and brought up to date before the holding of these credentials becomes mandatory on September 1, 1955.

The committee appointed to make the study includes representatives of state colleges, universities, county superintendents of schools, city superintendents of schools, unified school districts, schools for the deaf and for the blind and various educational organizations. Certain staff members of the State Department of Education are serving as consultants to the committee.

The committee met for the first time on February 24, 1954, at the State Education Building in Sacramento. Following a morning session

¹ Education Code Sections 9614 and 12146.

devoted to a statement of the problem and discussion of general approaches to solution, subcommittees were appointed for each of the seven special fields and for research. The subcommittees met during the afternoon, consultants were assigned in the various fields, and suggestions were formulated for questionnaires in each field. Tentative arrangements were made for a second meeting in the latter part of May, 1954.

Membership on the committee is as follows:

STATE COMMITTEE ON REVISION OF CREDENTIAL REQUIREMENTS
FOR TEACHERS IN THE FIELD OF SPECIAL EDUCATION

- IRWIN O. ADDICOTT, Dean of Educational Services, Fresno State College
VIRGIL A. ANDERSON, Director, Department of Speech and Drama, Stanford University
RICHARD G. BRILL, Superintendent, California School for the Deaf, Riverside
JOHN P. BUCHANAN, Director of Secondary Education and Co-ordinator of Special Services, Vallejo City Unified School District
LEO F. CAIN, Dean of Educational Services, San Francisco State College, *Co-chairman*
WENDELL CANNON, Director of Student Teaching, University of Southern California
HERBERT C. CLISH, Superintendent, San Francisco City Unified School District
FLORA M. DALY, Director of Special Education, Stanislaus County
DAN DAWSON, Stanford University (representing California Council on Teacher Education)
RAY B. DEAN, Assistant Superintendent, Sacramento City Unified School District
GEORGE M. DOWNING, Deputy Superintendent, San Jose Unified School District
MRS. KATHRYN H. ENRIGHT, Teacher, San Mateo County Class for the Blind
JUNE GIDDINGS, Supervisor, Special Education, Long Beach Unified School District
ELISE HAHN, Assistant Professor of Speech, University of California, Los Angeles
CHARLES E. HAMILTON, California Teachers Association, San Francisco (representing Commission on Teacher Education and Professional Standards)
MRS. ELIZABETH HUDSON, 635 Terraine Avenue, Long Beach 14 (representing California School Boards Association)
ELLIS A. JARVIS, Assistant Superintendent, Division of Secondary Education, Los Angeles City School Districts
FRANCIS E. LORD, Co-ordinator, Special Education, Los Angeles State College of Applied Arts and Sciences
MRS. M. D. MACMILLAN, 1641 11th Avenue, Sacramento 18 (representing California Congress of Parents and Teachers, Inc.)
MARY FRANCES MARTIN, Supervisor, Special Education Section, Division of Elementary Education, Los Angeles City School Districts
DELMAR T. OVIATT, Chairman, Education Division, Los Angeles State College of Applied Arts and Sciences
MRS. EVA RITCHIE, Principal, Sunshine School, San Diego City Unified School District
JOHN ROBERTS, Director of Child Welfare Services, San Francisco City Unified School District
MRS. GRACE ROSS, Assistant in Research, Oakland Unified School District
HARRY SMALLENBURG, Director, Division of Research and Guidance, Office of Los Angeles County Superintendent of Schools, *Co-chairman*
J. J. THOMPSON, Assistant Superintendent of Schools, Riverside County
GEORGE V. WHITE, Superintendent, Burlingame Elementary School District

MRS. MABEL B. WHITEHEAD, Assistant Professor of Education, San Francisco State College

ERNEST WILLENBERG, Special Education Consultant, Kern County

MRS. EDNA WOODS, Consultant in Hearing Conservation, Office of Ventura County Superintendent of Schools

MRS. CHARLOTTE YARBROUGH, Consultant in Special Education, Ventura County

STATE DEPARTMENT OF EDUCATION CONSULTANTS TO THE COMMITTEE

F. W. DOYLE, Chief, and Staff Member, Bureau of Special Education

HERSCHEL S. MORGAN, Credentials Technician

MRS. AFTON DILL NANCE, Consultant in Elementary Education

HERBERT R. STOLZ, M.D., Deputy Superintendent of Public Instruction and Chief, Division of Special Schools and Services

JAMES C. STONE, Specialist in Teacher Education

GEORGE L. WHITE, Consultant in Secondary Education

DIVISION OF PUBLIC SCHOOL ADMINISTRATION

BUREAU OF TEXTBOOKS AND PUBLICATIONS

IVAN R. WATERMAN, Chief

NEW PUBLICATIONS OF THE DEPARTMENT OF EDUCATION

Conservation—Concern for Tomorrow: The Importance of California's Natural Resources. Compiled by BERNARD J. LONSDALE, Consultant, Bureau of Elementary Education, California State Department of Education, and EDWARD F. DOLDER, Chief, Conservation Education, California Department of Natural Resources. Bulletin of the California State Department of Education, Vol. XXIII, No. 1, March, 1954. Pp. viii + 176.

This illustrated bulletin represents the co-operative effort of various departments and agencies of the State of California that are concerned with the conservation of the state's natural resources. It seeks to provide for teachers some basic information contributing to the development of the understanding and the attitudes essential to an effective conservation program. The bulletin is intended as background material for the teacher rather than as a teaching guide or curriculum aid. It includes chapters on forests, fish and game, minerals, water, soil and recreational resources.

Among the persons involved in preparing and reviewing the material in the compilation of the bulletin were the following, arranged in accordance with the agencies represented:

California Department of Natural Resources—NEWTON B. DRURY, Chief, Division of Beaches and Parks; OLAF P. JENKINS, Chief, Division of Mines; GORDON B. OAKESHOTT, Supervising Mining Geologist; WILLIAM SANBURN, Librarian, Division of Mines; SVEN G. ANDERSON, Secretary, State Soil Conservation Commission.

California Department of Fish and Game—WILLIAM BOSTWICK, Supervisor, Conservation Education.

University of California—EMANUEL FRITZ, Professor of Forestry

California State Department of Education—HELEN HEFFERNAN, Chief, Bureau of Special Education; HERBERT D. GWINN, Consultant in Secondary Education

Copies of *Conservation—Concern for Tomorrow* have been sent to county, city, and district superintendents of schools and to the principals of public elementary and secondary schools in the state, except the one- and two-teacher schools which will receive their copies through the county superintendent of schools. The limited remaining stock of the publication is available, on request from superintendents of schools, for use by supervisory and teaching personnel with special responsibility for conservation.

Laws and Regulations Relating to Education and Health Services for Exceptional Children in California. Sacramento 14: California State Department of Education, February, 1954. Pp. vi + 74.

This publication contains the California laws and regulations dealing with the education of physically handicapped and mentally retarded minors. The laws are quoted from the Education Code and the Health and Safety Code, as amended by the 1953 regular session of the State Legislature. The regulations, including those adopted by administrative bodies during the calendar year 1953, are quoted from the California Administrative Code, Titles 5 (Education) and 17 (Public Health).

In addition to education and health services, the publication quotes laws and regulations regarding state building aid for the education of exceptional children, credential regulations for personnel engaged in discovering and teaching physically handicapped and mentally retarded children, and laws relating to the administration and services of the state residential schools for blind, deaf, and cerebral palsied children.

Copies of this publication have been distributed to county, city, and district superintendents of schools; to public-school personnel actively engaged in special education of exceptional children; to state, local, and private agencies and organizations concerned with education for the handicapped; and to other interested groups and individuals.

ADDITIONS TO STATE LIST OF HIGH SCHOOL TEXTBOOKS

NEW BOOKS

The following books have been added to the official state list of high school textbooks since publication of the March, 1954, issue of *California Schools*.

AGRICULTURE		Prices	
		New	Exchange
Animal Husbandry			
Knodt, <i>Successful Dairying</i> (1954).....	McGraw	\$3.36	—
Farm Mechanics			
Morford, <i>Farm Arc Welding</i> (1954).....	Lincoln Arc Weld.	2.00	—
BUSINESS SUBJECTS			
Secretarial and Office Practice			
Indexing and Filing <i>Workbook</i> , second edition (1954).....	Rowe	.48	—
Typewriting			
Reigner, Rygiel & White, <i>Rowe Typing</i> , third edition (1954)	Rowe	2.11	\$1.98

ENGLISH

		Prices	
		New	Exchange
Composition, Grammar, and Rhetoric			
Gray & Others, <i>English in Practice</i> (1953).....		McCormick	
Book 1 [grade 9].....		\$0.75	-----
Book 2 [grade 10].....		.75	-----

HOMEMAKING

Clothing and Textiles			
Wingo, <i>The Clothes You Buy and Make</i> (1953).....	McGraw	3.20	-----

MATHEMATICS

Algebra			
Smith, Totten & Douglass, <i>Row-Peterson Algebra Book Two</i> (1954)		Row	
		2.18	\$2.04
Arithmetic and General Mathematics			
Mitchell & Reigner, <i>Applied Arithmetic Essentials</i> , third edition (1953).....		Rowe	
		.67	-----
Geometry—Plane and Solid			
Mallory & Oakley, <i>Solid Geometry</i> (1954).....	Sanborn	2.11	2.06
Vocational Mathematics			
Van Leuven, <i>General Trade Mathematics</i> , second edition (1952)	McGraw	3.36	-----

MUSIC

Musical Theory			
Reed, <i>Basic Music</i> (1954).....	Mills	5.00	-----

SCIENCE

Chemistry			
Weaver & Foster, <i>Chemistry for Our Times</i> (1954).....	McGraw	3.30	-----
General Science			
Davis, Burnett & Gross, <i>Science</i> (1954).....		Holt	
I. <i>A Story of Observation and Experiment</i>		2.53	2.47
II. <i>A Story of Experiment and Discovery</i>		2.62	2.56
Dowling & Others, <i>Understanding Science, Answering Why</i> [grade 8] (1954)		Winston	
		2.08	2.03

SOCIAL STUDIES

History—United States			
Augspurger & McLemore, <i>Our Nation's Story</i> (1954).....	Laidlaw	3.42	3.21
Boyle & Others, <i>Quest of a Hemisphere</i> (1954).....	Winston	3.52	3.43

VOCATIONAL AND TECHNOLOGICAL TRAINING AND INDUSTRIAL ARTS

Architectural Drawing			
Ray, <i>Graphic Architectural Drafting</i> (1954).....	McKnight	3.84	-----
Automotive Mechanics			
Kuns, <i>Automotive Service</i> , Volume II, revised edition (1953)	Bruce	4.16	3.47
Blueprint Reading			
Coover, <i>Drawing, Sketching, and Blueprint Reading</i> (1954)	McGraw	3.17	-----

		New	Prices Exchange
Diesel Engine			
Kates, <i>Diesel and High-Compression Gas Engines—Fundamentals</i> (1954)	Amer. Tech.	\$4.40	-----
Foundry Work			
Smith, <i>Patternmaking and Founding</i> (1954)	McKnight	.80	-----
General Shop			
Groneman & Feirer, <i>General Shop</i> (1954)	McGraw	2.85	-----
Machine Shop			
Burghardt & Axelrod, <i>Machine Tool Operation, Part II, third edition</i> (1954)	McGraw	4.00	-----
Mechanical and Engineering Drawing			
Coover, <i>Drawing, Sketching, and Blueprint Reading</i> (1954)	McGraw	3.17	-----
Miscellaneous			
Instructional Staff, Commercial Trades Institute, Chicago, <i>Practical Upholstering</i> (1953)	McGraw	3.60	-----
Pattern Making			
Smith, <i>Patternmaking and Founding</i> (1954)	McKnight	.80	-----

REVISED EDITIONS

The following revised editions have been placed on the official state list of high school textbooks since publication of the March, 1954, issue of *California Schools*, to replace editions previously listed.

BUSINESS SUBJECTS

Business Law

Lavine & Edelson, <i>Basic Business Law</i> , third edition (1953)	Rowe	\$1.79	\$1.68
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GUIDANCE, ORIENTATION, AND PERSONALITY DEVELOPMENT

Neugarten & Others, <i>Our School Life</i> [Book 9] (1954)	Nat. Forum	2.04	-----
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HEALTH AND HYGIENE

Jones, Morgan & Landis, <i>The Road to Health, For Healthful Living</i> [grade 7] (1954)	Laidlaw	1.60	1.50
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HOMEMAKING

Foods and Nutrition

Harris & Speer, <i>Everyday Foods</i> , fifth edition (1954)	Houghton	3.20	3.01
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MATHEMATICS

Geometry—Plane and Solid

Avery, <i>Solid Geometry</i> (1951)	Allyn	1.85	1.80
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SCIENCE

Chemistry

Biddle & Bush, <i>Chemistry Today</i> (1954)	Rand	3.14	2.94
Brownlee & Others, <i>Elements of Chemistry</i> (1954)	Allyn	3.10	2.91
Carleton, Carpenter & Woline, <i>Chemistry for the New Age</i> , revised edition (1954)	Lippincott	3.20	3.12

SOCIAL STUDIES

History—United States		Prices	
		New	Exchange
Gavian & Hamm, <i>The American Story</i> (1954).....	Heath	\$2.88	\$2.70
History—World			
Cordier & Robert, <i>History of World Peoples</i> (1954).....	Rand	2.34	2.19

INTERPRETATIONS OF LAW

APPLICABLE TO SCHOOLS

LAURENCE D. KEARNEY, *Administrative Adviser*

[The following items are merely digests, and although care is taken to state accurately the purport of the opinions reported, the items have the limitations common to all digests. The reader is therefore urged to examine the complete text of an opinion digested and, when necessary, secure competent legal advice before taking any action based thereon.]

OPINION OF CALIFORNIA DISTRICT COURT OF APPEAL

Liability of School District for Injury to Pupil From Thorn on Palm Tree on School Ground

A school district is not liable, as a matter of law, under the Public Liability Act of 1923, the applicable provisions of which are now contained in Government Code Section 53051, or under Education Code Section 1007 when a pupil is injured under the circumstances herein-after shown. During recess the nine-year old pupil-plaintiff and another pupil hid from the supervising teacher, entered a shrub area on a remote corner of the school grounds, and began pulling thorns from a palm tree within the area. A thorn at which the other pupil was tugging came loose and hit the eye of the plaintiff. A long standing rule of the school prohibited the pupils from playing in the shrub area. The eleven-year old date palm was 10 or 12 feet high with fronds 4 feet from the ground. At the base of the fronds were sharp thorns several inches in length. Within three weeks preceding the accident a message had been read to the class of which plaintiff was a member to "stay from this corner—the shrubs, and to stay away from the thorns because they might hurt you." The trees were used for ornamental purposes. The City of Riverside maintained in its parks and parkways some 15,000 ornamental date palms. There was no evidence that any person previously had been injured by any of these trees. No complaints had been made to the school authorities and no prior accident, if any, had ever been reported. There was no evidence that the school authorities knew that students had ever removed thorns from the palm. The area involved was not intended to be used as a playground. One teacher, the principal, and a "safety committee" of fifth- and sixth-grade students supervised approximately 200 pupils during the recess period.

The appellate court held that the plaintiff was a trespasser and his injuries resulted from an unauthorized and prohibited use of the tree involved; that under the circumstances the tree did not constitute a

"dangerous or defective condition" of the school ground within the meaning of the Public Liability Act. Under that act a public agency is liable only for damages resulting from the defective condition of the property in its ordinary, usual, and customary use. The question of the dangerous character of a defective condition depends largely on the intended lawful use of the property. Further, the district did not have notice of any dangerous condition.

The facts do not support a claim under Education Code Section 1007, which makes a district liable for any judgment for injury to a person arising because of the negligence of the district, its officers, or employees. There is no substantial evidence to support the allegation of the complaint that the district employees were negligent in supervising the children. "There is no evidence that the teachers could reasonably expect that the plaintiff would surreptitiously visit the shrub area" or that the teachers knew that he had done so. (*Ford v. Riverside City School District*, 121 A.C.A. 647).

OPINION OF CALIFORNIA ATTORNEY GENERAL

Augmented County Committee

Under Education Code Section 4902.05 a quorum of the augmented county committee on school district organization is more than half of the whole membership thereof, as membership is determined for quorum purposes. Education Code Section 4902.05 provides that for the purpose of constituting a quorum at committee meetings all of the members of the governing board of one school district attending the meeting shall count only as one member. Thus where for the purposes of a quorum the augmented committee consists of 14 members, 11 members being the original committee and each of three members being a governing board of a school district, as distinguished from a member of a governing board, the quorum consists of eight of such 14 members. In the absence of qualifying legislation, the general rule is that a quorum is a majority of all the members.

A "majority of all entitled to vote" under Education Code Section 4902.05 does not mean a "majority of the quorum" or a "majority of votes cast" but a majority of the total votes to which the membership of the whole augmented committee is entitled, in this instance, 8 votes out of 14 votes. (AGO 54-23; 23 Ops. Cal. Atty. Gen. 99.)

FOR YOUR INFORMATION

CALENDAR OF EDUCATIONAL EVENTS

A list of scheduled educational meetings and events of state-wide or regional significance is maintained for the current school year in the office of the Superintendent of Public Instruction. The principal calendar for each year is published in the September issue of *California Schools*, additions and corrections being noted in subsequent issues whenever information is received from the organizations responsible for scheduling the various events. In order to appear in any given issue of this periodical, information must be in the hands of the editor by the end of the first week of the preceding month.

The following items have already been scheduled for the school year 1953-54:

<i>Date, 1954</i>	<i>Organization and Event</i>	<i>Place</i>
November 4, 5, and 6	California Council on Teacher Education	Yosemite National Park
November 7 to 13	National Education Association, American Education Week	Nation-wide

SCHOLARSHIP IN MINING AND TECHNOLOGY 1954-55

The Michigan College of Mining and Technology is again offering a scholarship to one representative student from each state. This scholarship, which is effective beginning in the fall, 1954, carries remission of matriculation and tuition fees for a four-year course. The student should be in the upper half of his class and deserving of assistance. School administrators are requested to recommend to the Superintendent of Public Instruction, not later than June 10, 1954, any student who may be interested in and eligible for this award, submitting a transcript of the applicant's high school record and indicating if his scholastic standing is in the upper half of his class.

Applicants should write to L. F. Duggan, Registrar, Michigan College of Mining and Technology, Houghton, Michigan, for information concerning entrance requirements.

SPECIAL OPPORTUNITIES FOR SCHOOL PERSONNEL IN SUMMER SESSIONS, 1954

The list which follows of special features to be offered in college and university summer sessions in California for 1954 has been compiled from information supplied by 31 of the 36 institutions authorized by the State Board of Education to recommend candidates for credentials for public

school service, supplemented in certain fields by reports of staff members of the State Department of Education.

The institutions are arranged in alphabetical order, with dates of their summer terms, tuition rates per unit, and names of summer session directors. Under each institution are listed the features offered, in order of the date of the beginning of the session or meeting. Contributors were requested to limit their copy to special or unusual features, intensive short-term conferences or institutes. No attempt has been made this year to include lecture-type courses that are offered every summer or any regular courses that are widely available at other times of the school year. Each offering is briefly characterized, with notations of catalog number when possible, of prerequisites, limitations of enrollment, or special fees, if any. In many cases, the name is given of the instructor in charge or of the person at the institution to whom inquiries are to be directed.

The paragraph entries are numbered serially in the righthand margin in bold-face type. The entry numbers are employed in a subject index provided at the end of the section for the convenience of readers who wish to refer to all the features offered in any particular field or subject.

Persons interested in enrolling for summer session study should write to the individual institutions for further information and for application blanks.

CALIFORNIA COLLEGE OF ARTS AND CRAFTS

Broadway at College Avenue, Oakland 18, California

Forty-eighth Annual Summer Session: July 6 to August 13, 1954

Fees: \$15 per semester unit

Spencer Macky, *President, Director of the Summer Session*

Courses will be offered leading to certificates and degrees in art and art education and to the special secondary credential in art. Each course meets daily except Saturday and yields 2 semester units of credit.

Classes in creative art for children aged 7 to 14 years will be conducted daily from 9:00 a.m. until noon throughout the session. Fee for enrollment of pupils is \$25 to cover cost of materials used.

Inquiries concerning details of the summer session may be addressed to the Director of Admissions, California College of Arts and Crafts. 1

CALIFORNIA STATE POLYTECHNIC COLLEGE

San Luis Obispo, California

Four-week Summer Term: June 25 to July 23, 1954

Six-week Summer Term: July 23 to September 3, 1954

Fees: \$5 per quarter unit

Campus housing for students and workshop participants and their families in new dormitories at \$5 per person per week. Meals available on campus at reasonable prices.

June 21 to June 25—CALIFORNIA AGRICULTURAL TEACHERS ASSOCIATION CONFERENCE (1½ quarters units). A co-operative program of C. A. T. A. with the Bureau of Agricultural Education and the College. Professional material will be presented,

under direction of the Bureau of Agricultural Education, by speakers or panels, with motion pictures, etc. Sections on professional improvement will be directed by the California Agricultural Teachers Association. Registration fee, \$1.00. **2**

June 25 to June 30—**ANNUAL SKILLS WEEK** (1½ quarter units). A week's training in teaching methods and techniques and in up-to-date agricultural practices relating to animal husbandry, ornamental horticulture, and farm mechanics, offered in co-operation with the Bureau of Agricultural Education. A meat laboratory will be included. Reservations should be made through H. H. Burlingham. **3**

July 19 to July 23—**SCHOOL LUNCH WORKSHOP** (HE 632, 633, or 636; 1½ quarter units each). Sponsored by the State Department of Education to provide instruction for school lunchroom personnel. Includes beginning and advanced menu planning, purchasing food and equipment. Class sessions 9 to 1 daily, including lunch period. Enrollment limited. Lodging and meals on campus at the special rate of \$17 for the week. For application blanks and housing reservations, address School Lunch Program, State Department of Education, Sacramento 14. **4**

August 8 to August 20—**SEVENTH ANNUAL PHYSICAL EDUCATION WORKSHOP FOR SECONDARY SCHOOL MEN** (2 quarter units per week). Sponsored by the California Association for Health, Physical Education, and Recreation. Specialists and visiting lecturers will deal with football, basketball, baseball, track, swimming, gymnastics, tennis, archery, golf, trampoline, physical education, intramural sports, public relations, and officiating. For information on housing reservations, address Men's Workshop Committee. **5**

August 15 to August 27—**PHYSICAL EDUCATION WORKSHOP FOR WOMEN IN SECONDARY SCHOOLS** (4 quarter units). Sponsored by California State Department of Education and California Association for Health, Physical Education, and Recreation, to help physical education teachers-in-service to provide worth-while educational and recreational experiences for today's youth. Opportunity for experience with new teaching methods, new approaches to old activities, stimulating fellowship, and professional improvement under recognized leadership. Total expense for board, room, and fees estimated at \$50 for two weeks. For information on housing reservations address Women's Workshop Committee. **6**

CHICO STATE COLLEGE

Chico, California

Pre-Session: June 7 to June 11, 1954

Summer Session: 6 weeks, June 14 to July 23, 1954

Post Session: August 9 to August 20, Reading Clinic, Susanville, California

Fees: \$8 per semester unit

Victor M. Houston, Co-ordinator of Summer Programs

June 7 to June 11—**DEVELOPMENTAL READING CLINIC** (Ed. s322, 1 unit). A clinic for both elementary and secondary school teachers, concerned with developmental and corrective reading programs. Bernard Belden, instructor. Repeated August 9 to August 20 at Susanville. **7**

June 7 to June 11—**TEXTILES WORKSHOP** (H.F.L. s122, 1 unit). Review of current literature on synthetic fibers, examination and testing of fabrics and garments made from synthetic fabrics, and compilation of fabric files. Florence Ritchie, Instructor. **8**

June 7 or 8 to June 11—**NORTHERN CALIFORNIA COMMUNITY LEADERS' WORKSHOP** (Sociol. 175, 1 unit). Sponsored jointly by Chico State College, the Governor's Advisory Committee on Children and Youth, and 35 other state and regional organizations. An opportunity for community leaders to meet with specialists in community development to work on regional problems of local interest. Free to those who do not desire credit. **9**

- June 14 to June 18—**SCHOOL JOURNALISM WORKSHOP** (Eng. s126, 1 unit). Special emphasis on school newspapers and some attention to yearbooks and other publications. Open to sponsors and prospective sponsors of school publications for credit. Open to high school students working on student publications on a non-credit basis, without cost. 10
- June 14 to June 25—**ADVANCED TAILORING WORKSHOP** (H.F.L. s109, 2 units). Application of detailed tailoring processes to wool jacket or coat with lining. Florence Ritchie, instructor. 11
- June 14 to July 9—**SIXTH ANNUAL COUNSELING AND GUIDANCE WORKSHOP** (4 units graduate credit for participation in either the Basic or Advanced Workshop):
- BASIC COUNSELING WORKSHOP** (Psych. s253). Techniques of diagnosis and counseling for teacher-counselors and full-time counselors working with students of upper-grade, junior high, and high school ages. Enrollment limited to 60. Staff, Mrs. Ester Nelson, Consultant in Elementary Education, State Department of Education, and Herman J. Peters, Co-ordinator. 12
- ADVANCED COUNSELING WORKSHOP** (Psych. s254). Intensive studying of the basic techniques of interviewing, and practice in actual counseling situations. For advanced students. Staff, Gilbert C. Wrenn, Professor of Educational Psychology, University of Minnesota, and Merville C. Shaw, Co-ordinator. 13
- June 14 to July 9—**MUSIC WORKSHOP**. Qualified students of elementary and high school age are granted a tuition-free scholarship upon the recommendation of their music supervisors. Requests for information should be addressed to Dr. Joseph M. Wilson, Chico State College. 14
- June 14 to July 23—**CITIZENSHIP EDUCATION WORKSHOP** (Ed. s392, 2 units). Materials and methods of instruction in the social studies developed by the Citizenship Education Project of Teachers College, Columbia University, will be presented in this workshop under an outstanding staff of instructors. 15
- June 14 to July 23—**DAY RECREATION CAMP**, Bidwell Park, Chico. A day camp organized for children of elementary school age and for training of teachers who are interested in camping education. 16
- June 14 to July 23—**DEMONSTRATION CLASSES**, Aymer Jay Hamilton School. Classes will be maintained to demonstrate methods of teaching in one-grade and in multi-graded situations. 17
- June 14 to July 23—**WORKSHOPS IN ELEMENTARY SCHOOL CURRICULUM AND MATERIALS** (4 units each). Students may enroll for 4 units in one of the following six blocks of work for elementary school teachers, and may take other work to make a total of 6 units for this session. Charles Millis, Co-ordinator.
- Elementary School Art and Crafts* (Art s5AB) Ann Frey
Elementary School Science (Ed. s132) Homer J. Lowe
Elementary School Social Studies (Ed. s151) Charles Millis
Elementary School Music (Ed. s361) C. Robert Laxson
Elementary School Reading and Language Arts (E. s143) Bernard Belden 18
- June 19 to August 17—**EUROPEAN TOUR** (8 units). This tour will include England, Belgium, the Netherlands, Germany, Switzerland, Italy, Spain, and France. Tuition \$64. 19
- July 5 to July 16—**DRIVER EDUCATION WORKSHOP** (Ed. s159, 2 units). Six scholarships of \$16 each have been provided by the Chico Insurance Agents Association for teachers interested in enrolling in this workshop. Applications may be addressed to Co-ordinator of Summer Programs, Chico State College. 20
- July 6, 7, and 8—**EDUCATIONAL CONFERENCE AND EXHIBIT** (no credit). Attention to such topics as the effects of recently enacted school legislation, how to initiate programs of curriculum improvement, the purchase and care of school equipment, and to other problems that are currently challenging school administrators. 21

CLAREMONT SUMMER SESSION

Harper Hall, Claremont

First Term: June 21 to July 30, 1954

Second Term: August 2 to September 4, 1954

Fees: Registration, \$5; \$15 per semester unit

Luther J. Lee, Jr., *Director of the Summer Session*

June 18 to August 1—**APPRENTICESHIP FOR SCHOOL SUPERINTENDENTS** (Ed. 267a, 6 units). To give superintendents of small districts and students who anticipate becoming superintendents of schools actual experience under guidance in carefully selected school systems. One student will be assigned to each such co-operating system. Experience in budgeting, accounting systems, purchasing; records and reports, building planning and maintenance. Study of administrative organization, community interpretation programs, conduct of school board meetings. Registration limited. Pre-session June 18-19, final session August 1. Special application forms must be filed with Director of the Summer Session prior to June 1, 1954. **22**

June 21 to July 16 (4 weeks)—**WORKSHOP ON SCIENCE EDUCATION** (Ed. 176, 4 units). For secondary school teachers. Theme: "The Progress and Horizons of Science." New developments in astronomy, geology, physics, chemistry, and biology. Lecture-discussions by eminent scientists, supplemented by field trips to nearby scientific installations. Supported by a grant from the Carnegie Corporation of New York. Tuition and room and board scholarships will be awarded to approximately 25 California science teachers. **23**

June 21 to July 30—**THE SPECIAL-CLASS CHILD** (Psych. 255, 6 units). To serve the distinctive needs of those preparing to work with special-class children clinically, as classroom teachers, or as supervisors. Organized around a core of classes of children meeting in various ways the requirements for special class attendance in public schools. At least one group will be made up of slow learners with normal intelligence needing special techniques. Daily, 9:00 to 12:00, 1:30 to 3:00. Florence Mateer, instructor. **24**

June 21 to July 30—**WORKSHOP IN BASIC RHYTHM** (Music 118, 3 units). Designed to help teachers through participation in workshops for children. Opportunity for three groups of children, aged 4 to 10 years, to develop movement forms that are basic to the rhythmic structure of all arts and to use these forms as material for creative activity. Opportunity for adults to observe these groups and to participate in rhythmic experiences. **25**

June 21 to July 30—**WORKSHOP-SEMINAR IN THE SOCIAL SCIENCES AND SECONDARY EDUCATION** (Ed. 272, 272a, 6 units). A political scientist, an economist, and a sociologist will join forces with professional educators in a survey of topics and problems in American life of major importance to teachers and prospective teachers of social studies in junior and senior high schools. Morning discussions, afternoon workshop sessions on such topics as crime in California, racial discrimination and public policy, Communism in America, taxation and federalism, farms and farm policy, and the future of social security. **26**

July 5 to July 30 (4 weeks)—**WORKSHOP ON COLLEGIATE STUDENT COUNSELING** (Ed. 179, 4 units). Offered in co-operation with Western Personnel Institute, for student personnel staff members in junior and four-year colleges. Topics to be covered: the college student and his needs in personal-social development including mental health; achieving economic independence; development of meaningful goals in relation to academic studies; organization and administration of student personnel services, etc. Daily, 9:00 to 12:00. Over-all fee, \$77 including luncheon five days a week. Dr. Edmund G. Williamson, University of Minnesota, director. **27**

July 12 to July 16—Twenty-second annual **CLAREMONT COLLEGE READING CONFERENCE**, Eucalyptus Court, Scripps College Campus. Sponsored jointly by the Graduate School and Alpha Iota Chapter of Pi Lambda Theta. General Theme:

"Reading—The Process of Making Discriminative Responses." Theme for 1954: "Human Relations as a Problem for Reading." Especially designed for elementary and secondary teachers and administrators. Fee, for those not otherwise enrolled in the summer session, \$15 a week, \$5 a day. Living accommodations \$5 a day in college residence halls. **28**

July 19 to July 23—**WORKSHOP ON YOUTH PROBLEMS**, sponsored by the Governor's Advisory Committee on Children and Youth, the California Youth Authority, and several state-wide organizations concerned with youth welfare. **29**

COLLEGE OF THE PACIFIC

Stockton 4, California

First Summer Session: June 22 to July 23, 1954

Second Summer Session: July 26 to August 27, 1954

Fees: \$15 per semester unit

J. Marc Jantzen, *Director of the Summer Sessions*

June 22 to July 2—**FAMILY LIFE EDUCATION WORKSHOP** (2 units). Sponsored by California Congress of Parents and Teachers, the California-Nevada Council of Churches, and the College Clinical Services. Two weeks of concentrated study and discussion under the leadership of Mr. and Mrs. David B. Treat of the Clara Elizabeth Fund for Maternal Health, Flint, Michigan. Designed to bring together professional and nonprofessional workers in various phases of family life education to co-ordinate their efforts in education for responsible parenthood and stable family life. Group limited to 40. Admission by application only. Inquiries should be addressed to Mrs. Fay Goleman, director of this workshop. **30**

June 22 to July 23—**OBSERVATION AND DIRECTED TEACHING IN ELEMENTARY SCHOOL** (S158, 2 units). The Stockton Unified School District maintains an elementary summer session in which opportunities for observation are provided for students enrolled in College of Pacific summer classes. A few openings for directed teaching will be available to candidates for the general elementary credential who will teach next fall. Applications must be directed before June 1 to Roy E. Learned, Director of Elementary Education. **31**

June 22 to July 23—**WORKSHOP IN KINDERGARTEN—PRIMARY EDUCATION** (Ed. S136, 4 units). A five-week workshop conducted under the leadership of Mrs. Frances B. Helm, Supervisor of Kindergarten and Primary Education, Sacramento City Unified School District. **32**

June 22 to August 7—**WORKSHOP IN THEATRE**, Fallon House, Columbia (Speech S160, S260, 6 units). Theatre training, technical and acting experience, and practice in various phases of theatre arts for the fifth season of public performances by the co-operative repertory Pacific Theatre Columbia Company. Housing and meals in dormitory style at Columbia. For complete prospectus and full information address DeMarcus Brown, executive director, Pacific Theatre Columbia Company, College of the Pacific. **33**

June 22 to August 27—**BIOLOGY BY THE SEA** (1 to 4 units). The Pacific Marine Station at Dillon Beach offers first hand opportunity to study the science of life under ideal laboratory and field conditions. Course offerings are especially planned to meet the needs of elementary, high school, and junior college teachers. Further information, including specific courses and laboratory or field fees, may be obtained by writing to Dr. Alden E. Noble, Professor of Zoology. **34**

June 22 to August 27—**INTERCLINIC PROJECT IN HUMAN ADJUSTMENT**. The Rosenberg Foundation has made a grant to the Clinical Services of the College for the third academic year. In addition to the two-week workshop in Family Life Education, the Clinical Services offer specialized training in the following four areas:

June 22 to July 23—**MUSIC THERAPY** (Music S286, 2 units). Clinical experience in a program of music therapy with selected cases of exceptional children, as

a part of education for home-bound children, and as institutional work in connection with occupational therapy and psychotherapy in the State Hospital. For teachers in service, psychology majors, and those interested in working with exceptional children. Open to other than music majors by permission of instructor, Mrs. Wilhelmina K. Harbert, Director, Music Therapy Clinic. **35**

June 22 to July 23—REMEDIAL READING (Psych. S172, 2 or 3 units). Reading clinic for teachers, supervisors, and other qualified persons who desire instruction and practical experience in diagnosis and remedial treatment of reading problems. Special instruction for a limited number of elementary and secondary school pupils who have reading disabilities. Applications for admission should be addressed to Mrs. Vivienne Sisk, Director, Laura Ann Sisk Memorial Reading Clinic. **36**

June 22 to July 23, repeated July 26 to August 27—CHILD PLAY THERAPY AND CLIENT-CENTERED COUNSELING (Psych. S162, 1 or 2 units). Training in non-directive clinical procedures with children, counseling psychotherapy with adolescents or adults. Prerequisites: Psych. S160 or an introductory course in client-centered counseling, and permission of instructor, Dr. Ned M. Russell, Clinic Co-ordinator. **37**

June 22 to July 23, repeated July 26 to August 27—SPEECH THERAPY (Sp. S183, 2 units). A program of speech correction and rehabilitation, combining course work with actual experience in the treatment of all types of speech defects. Dormitory accommodations for both children and adults are available. For details address Dr. Howard L. Runion, chairman, Speech Department, and Director of the Speech Therapy Clinic. **38**

June 24 and 25—SCHOOL ADMINISTRATORS CONFERENCE, for study, discussion, and evaluation of important administrative problems facing public education today. Fee for those not enrolled in summer session, \$2; for summer session students in school administration, \$1. For further information, including complete programs, address the Director of Educational Administration, School of Education. **39**

June 30 to July 19—FIRST ALASKA TOUR, under leadership of Edward S. Betz, Dean of Men. Travel one way by ship and one way by air, to Ketchikan, Juneau, Seward, Anchorage, Fairbanks, and Skagway; and by train and bus to Mendenhall Glacier, Tanana River, and McKinley National Park. **40**

July 5 to July 23—WORKSHOP IN TELEVISION PRODUCTION (Speech S261, 3 units). A three-week workshop, offered in co-operation with Station KTVU, for practical experience in all phases of television production. Intended for teachers, school administrators, and community leaders. Lecture, discussion, and laboratory projects in writing, directing, and performance. Classes will meet 9:00 a.m. to 12:00 noon daily in KTVU studios and 2:00 to 4:00 p.m. daily at the college studio. Applications for admission should be addressed to John C. Crabbe, Station KCVN, College of the Pacific. **41**

July 21 to August 9—SECOND ALASKA TOUR **42**

July 26 to August 6—SEVENTH ANNUAL FOLK AND SQUARE DANCE CAMP (S132 or S134, 1 or 2 units). Sponsored jointly by College of Pacific and Folk Dance Federation of California. Two consecutive sessions of six full days each, with an international staff of 30 leaders. A graduate seminar will be offered for teachers. Fee, \$10.00 per unit. For information address Lawton Harris, Folk Dance Camp Director. **43**

July 26 to August 6—WORKSHOP FOR SUPERVISING TEACHERS (Ed. S260, 2 units). For elementary and secondary teachers interested in professional work with student teachers. Willis N. Potter, Dean of Graduate Studies and Director of Secondary Education in charge, assisted by Mrs. Grace P. Johnson, Assistant Co-ordinator of Elementary Education, Stockton Unified School District. Applications should be directed to Dr. Potter. **44**

FRESNO STATE COLLEGE, Fresno 4, California

Fresno Campus Session: June 14 to July 23, 1954

Fresno Post Session: July 26 to September 3, 1954

Bakersfield Session: June 9 to July 20, 1954

Visalia Session: July 26 to September 3, 1954

Fees: \$8.00 per semester unit

Irwin O. Addicott, *Dean of Summer Sessions*

June 14 to July 9—**FIELD WORK IN BIOLOGY** (Biol. 208, 4 units). Conducted on tour, down the west coast of Mexico. Open to properly qualified students on basis of personal interviews with instructor. Students will camp and supply their own transportation. Arrangements include study of fauna, including at least one week under tropical conditions near Mazatlan or Tepic in the states of Sinaloa and Nayarit, respectively. Costs include tuition fees, plus prorated expenses of board and transportation. Advance registration required. For further information address Dr. Lloyd G. Ingles, Head, Life Science Division, who will conduct the group.

45

June 14 to July 9—**FIELD WORK IN GEOLOGY** (Geol. 108, 4 units). Studying geology entirely in the field, with practice in mapping and interpreting assigned areas. Offered infrequently at Fresno State College, as demand warrants. Four weeks will be spent camping out. Period of session may be altered to coincide with availability of possible accommodations. Preregistration and advance deposit of \$16 toward tuition required by May 30, 1954. For further information address Dr. George M. Stanley.

46

June 14 to July 23—**FIELD WORK IN CAMP COUNSELING** (Phys. Ed. 155F, 1-3 units). Supervised practical experience as counselor in an organized summer camping program for youth. Open to men and women who have credit in Camp Counseling (Phys. Ed. 155) or comparable training and leadership potentiality. For further information address Mrs. Emily C. Sample.

47

June 14 to July 23—**SPEECH THERAPY, HEARING AND VOICE SCIENCE WORKSHOP** (2 to 6 units). Speech for teachers, and methods for correcting speech and hearing defects of children. Theory, observation, and practice, directed by Alonzo J. Morley, Director of Speech and Hearing at Brigham Young University, and Louise Binder Scott, Director of Speech and Hearing in San Marino (California) public schools. For further information address Dr. John W. Wright.

48

June 14 to July 23—**SUMMER SESSION EXCURSIONS**. A series of guided excursions, planned for benefit of Fresno Campus Summer Session students, will include trips on weekends and during the week to points of scenic and cultural interest in central California, with competent conductors provided by the departments of agriculture, nature study, geology, and history. The program will be set up early in the summer session and will reflect students' interests.

49

June 21 to July 18—**FIELD STUDY IN MEXICO** (Span. 55a, Hist. 161, 2 units each). Four weeks of intensive study of local language, literature, and history in Mexico. Expenses estimated roughly at \$375. For further information address Dr. Carlos Rojas, Chairman of the Foreign Language Department, who will conduct the group.

50

July 26 to July 30—**ALCOHOL AND NARCOTICS EDUCATION WORKSHOP** (Health Ed. 110s, 1 unit). Problems of alcohol and narcotics education, approached in an unemotional, unbiased, factual manner. Consideration of scientific data on the effects of overuse of alcohol and narcotics. Teachers, nurses, and social workers can enroll. For further information address Dr. Edith Lindly, who will direct the workshop in co-operation with experts from state and local agencies.

51

July 26 to August 20—**CONSERVATION—NATURAL RESOURCE USE WORKSHOP** (Ed.-Biol. 157, 4 units). Offered through co-operation of state, federal, and private agencies, and school personnel. Field experiences will acquaint participants with the central

California area and with problems associated with water supply and use, forestry, soil, insect pests, weed control, hydroelectric development, proper development of oil, natural gas, and mineral wealth, wildlife, recreation, and the need for planning on community, regional, and federal levels. Transportation provided, students making deposit to cover actual cost. Advance enrollments accepted. For further information address Dr. Leo F. Hadsall. **52**

July 26 to September 3, Visalia—EDUCATION OF SPANISH-SPEAKING CHILDREN (Ed. 156s, 2 units). Opportunity for teachers who work with children from Spanish-speaking families to study under expert leadership the characteristics and needs of such children and to learn, as needed, some simple, practical, oral Spanish. Demonstration classes. Mrs. Hazel Tucker, instructor. For further information address Dr. Irwin O. Addicott. **53**

August 23 to September 10—WORKSHOPS IN ELEMENTARY EDUCATION, for elementary school teachers in service, offered at various Valley points under sponsorship of city and county school systems. These sessions occur during the last weeks of the Post Session and are designed to give practical assistance to teachers with classroom curriculum problems. Students may enroll for Education 176 or 178, in communities in which workshops are being held, on the first day of each workshop:

Madera County Workshop, Madera—(Ed. 178, 2 units), August 23 to September 3

Merced City and County Workshop, Merced—(Ed. 178, 2 units), August 23 to September 3

Fresno County Workshop, Fresno—(Ed. 176 or 178, 1 unit), August 30 to September 3

Coalinga Workshop, Coalinga—(Ed. 178, 1 unit), September 6 to 10

For further information address Dr. Irwin O. Addicott. **54**

August 24, 25, and 26—Visalia—SCHOOL ADMINISTRATORS' WORKSHOP (Ed. 279s, 1 unit), stressing practical supervisory problems faced by school administrators today. Outstanding leadership supplied in accordance with problems which administrators indicate they wish to study. Opportunity provided for superintendents, principals, and supervisors to work together on common problems under expert guidance. Offered in co-operation with office of Tulare County Superintendent of Schools. For further information address Dr. Edward M. Spencer, who will direct the workshop. **55**

August 30 to September 3—JUVENILE DELINQUENCY AND YOUTH PROBLEMS (Criminology 123 or Sociology 123, 1 unit). A one-week workshop covering the deviant behavior of youth, with focus on the school child, conducted by the college Department of Criminology and the California Youth Authority, in co-operation with school administrators, public welfare agencies, county probation officers, law enforcement agencies, and other interested groups in the San Joaquin Valley. For further information address Frank Boelsen. **56**

HUMBOLDT STATE COLLEGE, Arcata, California

Regular Summer Session: June 21 to July 30, 1954

Post Session: August 2 to August 27, 1954

Fees: \$8 per semester unit

Ivan C. Milhous, Co-ordinator of the Summer Sessions

June 21 to July 30—WORKSHOP-TYPE SEMINARS, planned especially for teachers at either the secondary or the elementary level:

Workshop in American Literature (Eng. 194, 3 units)

Workshop in History (Hist. 194, 3 units)

Workshop in School Arts and Crafts (Art 181, 2 units)

Science Education (Educ. 162S or 195S, 2 units), Instructor: Dr. G. P. Cahoon, Professor of Science Education, Ohio State University

Health Education, Physical Education, and Coaching (HH 194 or PE 194, 2 units) **57**

June 21 to July 30—SPECIAL WORK IN SPEECH CORRECTION (Sp. 180A, 180B; 2 to 3 units). Theory of classification, diagnosis, and treatment of speech defects, supplemented by demonstrations and supervised practical work with children and adults in speech clinics. **58**

July 12 to July 23—WORKSHOP IN FOREST CONSERVATION EDUCATION (Educ. 166, 2 units). A special two-week workshop for teachers, with emphasis on curriculum materials in forest conservation, under the joint sponsorship of the Redwood Region Conservation Council, the State Department of Natural Resources, and Humboldt State College. Enrollment limited to 30 students. **59**

August 2 to August 6—WORKSHOP IN SCHOOL LUNCH MENU PLANNING (Nutrition, Beginning and Advanced Menu Planning, 1 unit each). A special one-week workshop for school lunch technicians under the joint sponsorship of the State Department of Education and the College. Class sessions 9 to 1 daily, including lunch period. Lodging and meals on campus at special rate of \$17 for the week. Enrollment is limited and all applications for admission must be addressed to the School Lunch Program, State Department of Education, Sacramento. **60**

August 2 to August 27—WORKSHOP IN ELEMENTARY METHODS AND CURRICULUM (Educ. 182, 1 to 4 units). **61**

August 2 to August 27—WORKSHOP IN SECONDARY METHODS AND CURRICULUM (Educ. 183, 1 to 4 units). **62**

IMMACULATE HEART COLLEGE

2021 North Western Avenue, Los Angeles 27, California

Summer Session: June 22 to July 31, 1954

Tuition: Undergraduate, \$50 for the season

Graduate, \$12 per semester unit

Sister M. Charles, *Director of Summer Sessions*

June 22 to July 31—ART WORKSHOP. Opportunities for the elementary school teacher in fundamentals of design, esthetic appreciation, and manipulation of tools and art mediums. Emphasis on problem presentation, exhibit techniques, and classroom arrangements. **63**

June 22 to July 31—LABORATORY IMPROVEMENT OF READING SKILLS. To improve reading ability or to overcome reading disability by use of tachistoscope and reading pacer. **64**

June 22 to July 31—SUMMER SESSION FOR SCHOOL LIBRARIANS. Conducted by the Graduate School of Library Science primarily for candidates for the California Librarianship Credential, covering special reference materials, children's literature, cataloging, audio-visual services to school libraries. For further information address Director, Department of Library Science, 2070 E. Live Oak Drive, Los Angeles 28. **65**

LA VERNE COLLEGE, La Verne, California

Regular Summer Session: June 21 to July 30, 1954

Fees: \$15 per semester unit

Herbert Hogan, *Summer Session Director*

June 21 to July 30—WORKSHOP IN MUSIC EDUCATION (Music S160, 3 units). Designed to give students practical experience in the use of rhythm instruments for elementary school classes. Auditor's fee, \$7.50. **66**

July 5 to July 30—DIRECTED OBSERVATION (Education S121, 2 units). Conducted in co-operation with the La Verne public schools. Observation of actual classroom methods and procedures in the morning; directed evaluation of the morning's work in the afternoon. **67**

LONG BEACH STATE COLLEGE

6201 E. Anaheim Road, Long Beach 15, California

Regular Summer Session: June 21 to July 30, 1954

Fees: \$8 per semester unit

J. Wesley Bratton, *Dean of Summer Session*

June 14 to July 30—FIELD TRIP IN UNITED STATES HISTORY AND AMERICAN POLITICAL INSTITUTIONS (Hist. 190 and Pol. Sci. 190, total 6 units). A 10,000-mile, coast-to-coast tour of famous historical cities, battlefields, buildings, memorials, and government projects. Conducted tours in Washington, D. C., including a congressional session, the White House, Smithsonian Institution, Pentagon, each branch of the National Government and many state governments. For further details, write to Ross A. Sciarrotta, Instructor and Tour Director. **68**

June 21 to July 30—CO-OPERATIVE COUNSELOR TRAINING (Ed. 279, 6 units). A program providing actual participation in industry for the six-week period. Each enrollee is employed as a regular employee but works at a variety of jobs in the co-operating agencies for 40 hours per week at standard wages. A seminar will be held two evenings per week on campus during which time problems of mutual concern will be discussed and evaluated. J. Everett Hollingsworth, instructor. **69**

June 21 to July 30—WORKSHOP IN SPEECH CORRECTION (Speech 190, 3 units). Practical help for the classroom teacher and the certified speech therapist. Problems of interest both to elementary and secondary teachers will be discussed by city, county, and state supervisors of speech correction and by consultants within the speech and medical professions. Particular attention to methods for handling of stuttering, delayed speech, parent counseling, and problems relating to cleft-palate speech. Verna Breinholt, instructor. **70**

June 21 to August 6—IDYLLWILD CONSERVATION SCHOOL, Idyllwild, Riverside County, at the Idyllwild School of Conservation and Natural Science. Campus fee of \$8 to be paid to the Idyllwild Arts Foundation in addition to tuition. Housing and camping accommodations are available at reasonable rates. For information, write to Dr. Robert P. Durbin, Director, Idyllwild School of Conservation and Natural Science, Idyllwild. Workshops are scheduled as follows:

June 21 to July 2—CONSERVATION WORKSHOP (Cons. 160, 2 units). To build positive attitudes toward conservation, stress the importance of wise use of natural resources, and provide meaningful observation and instruction in conservation which can be used in the classroom. Repeated July 19 to July 30. **71**

June 21 to July 2—FIELD NATURE STUDY (Nature Study 151, 2 units). An outdoor summer field course devoted to the study of the natural history of a specific area. **72**

July 5 to July 9—LEADERSHIP TECHNIQUES (Cons. 162, 1 unit). Includes consideration of some outdoor lore, identification of common plants and animals, and outdoor leadership techniques. Especially designed for group leaders and teachers. Repeated August 2 to August 6, after close of regular summer session. **73**

June 21 to August 20—REMEDIAL READING CLINIC (Ed. 245 and Psych. 245, total 9 units). For the classroom teacher and the specialist, a nine-week practical course in (1) diagnosis and treatment of reading disabilities, including a complete child study and work with parents, individually and in groups; (2) methods, techniques, and materials; (3) application of principles to individual and group instruction. Prerequisite: Consent of instructors, one year of teaching experience, graduate status, and background courses in general psychology, child growth and development, and the learning process. Leo Phearman and Earl Zwetschke, instructors. **74**

June 25 to August 15—FIELD STUDIES OF LATIN AMERICA (Gen. Soc. Sci. 180, 6 units). A summer workshop-tour to Latin America by air, leaving Los Angeles

June 25, with visits scheduled to Guatemala, Panama, Ecuador, Peru, Bolivia, Chile, Argentina, Uruguay and Brazil. To study Latin American culture, current conditions, and problems. Interviews in each country with prominent government officials and with leaders of education, religion, art, business and labor. For details, write to Dr. Ryland R. Madison, tour director. **75**

June 28 to July 2—SECONDARY SCHOOL CURRICULUM CONFERENCE. The California Association of Secondary School Administrators will hold its second annual four-day conference on the campus, dealing with "The Role of the Principal in Curriculum Development and Evaluation." Outstanding curriculum specialists will participate. Discussion groups will provide opportunity for consideration of numerous phases of the problem. **76**

August 2 to August 12—AVIATION EDUCATION WORKSHOP (Ed. 153, 2 units). Teachers, counselors, and administrators of elementary schools, high schools, and junior colleges will learn how aviation is being used to motivate learning in all areas, what instructional materials and aviation facilities are available for teacher and student use, and what current problems of aviation have implications for the public school curriculum. Opportunity for development of a unit of instruction or to plan a course in aviation appropriate to each teacher's particular needs. Conducted at Los Alamitos Naval Air Station, with visits to other places of civil and military aviation interests. Experienced teachers or people with student-teaching experience may enroll. Walter Nagle, instructor. **77**

LOS ANGELES STATE COLLEGE OF APPLIED ARTS AND SCIENCES

855 North Vermont Avenue, Los Angeles 29, California

Summer Session: June 21 to July 30, 1954

Fees: \$8.00 per semester unit

Albert D. Graves, *Dean of Educational Services and Director of Summer Session*

June 21 to July 9—ORGANIZATION AND ADMINISTRATION OF WORK EXPERIENCE PROGRAMS. Basic principles and policies of co-operative and work experience, emphasized by members of the Bureau of Business Education of the State Department of Education and the College faculty. **78**

June 21 to July 9—SCHOOL ARTS AND CONSTRUCTION WORKSHOP. Members of the Art Department faculty of the College will co-operate to conduct this workshop to provide classroom teachers with opportunity to develop portfolios of arts, crafts, and construction examples useful in the classroom. Repeated July 12 to July 30. **79**

June 21 to July 9—SECOND ANNUAL PACIFIC COAST WRITERS' CONFERENCE. Paul Wellman, author of many distinctive novels, and major writers of the Pacific region will participate. Frederick Shroyer of the Language Arts Department will co-ordinate the conference. **80**

June 21 to July 9—WORKSHOP IN LAW ENFORCEMENT AND THE PUBLIC SCHOOLS. Field trips to California penal institutions, crime laboratories, juvenile homes, narcotics bureaus, honor farms, vice squads, and other law enforcement agencies will furnish public school teachers and others with up-to-date information needed for the study of juvenile problems. William Barker, head of the Police Science Department of the College, Co-ordinator. **81**

June 21 to July 9—WORKSHOP IN PUBLIC SCHOOL INSTRUMENTAL MUSIC. The music faculty will co-operate to provide experience in organizing and administering instrumental programs, caring for instruments, budgeting and financing programs, developing methods and materials of beginning instruction, and programming ensemble activities. **82**

June 21 to July 30—ART EXPERIENCES FOR EXCEPTIONAL CHILDREN, a workshop conducted by members of the College staff, with special emphasis on those experiences which meet the needs of retarded or handicapped children. **83**

June 21 to July 30—WORKSHOP IN THE COMMUNITY RESOURCES FOR CURRICULUM AND INSTRUCTION. Major features of this workshop will be field trips to the harbor, the civic center, city parks, health departments, water departments, police stations, airports, bus terminals, industrial centers such as aircraft, rubber factories, packing plants, refineries, and shipyards. **84**

June 21 to July 30—WORKSHOP IN CURRICULUM DEVELOPMENT IN HOME ECONOMICS. Elizabeth Novak, Pasadena Junior High School teacher and member of the state committee for the review of the "State Guide for Homemaking Education" will conduct this workshop. The revised state guide will form the basis for the workshop program. **85**

June 21 to July 30—WORKSHOP ON THE DEVELOPMENT OF COMMUNICATION SKILLS FOR DEAF AND SEVERELY HARD-OF-HEARING CHILDREN. Evelyn Stahlem McInnes, Principal of the Mary E. Bennett Elementary School, Los Angeles, and Audrey Simmons, Director of Auditory Rehabilitation at the Central Institute for the Deaf, St. Louis, Missouri, will conduct this workshop for development of speech, language, and speech reading. Scholarships are available. **86**

June 21 to July 30—WORKSHOP IN JUNIOR HIGH SCHOOL PROBLEMS. Marian Wagstaff, Lecturer in Education, Los Angeles State College, will direct this workshop designed to study the unique problems of the American junior high school. **87**

June 21 to July 30—WORKSHOP IN PLAY THERAPY FOR PRIMARY TEACHERS. Practice in the guidance of play therapy sessions will be provided in this workshop conducted by Rod G. Langston, Chairman, Department of Elementary Education. **88**

June 21 to July 30—WORKSHOP ON PROBLEMS OF EDUCATION AND TREATMENT OF CRIPPLED CHILDREN. William Hirsch, Principal, Charles Leroy Lowman Elementary School, and Elena Boder, Pediatrician, Los Angeles City Schools, will discuss problems in the care and treatment of crippled children. **89**

June 21 to July 30—WORKSHOP ON SPEECH PROBLEMS IN THE CLASSROOM. Common speech problems in the classroom will be the focus of attention in this workshop. J. J. Thompson, Assistant Superintendent of Schools, Riverside County, will direct the program. **90**

July 6 and July 13 (two days)—WORKSHOP FOR LEADERS OF PARENT GROUPS WORKING WITH PROGRAMS FOR EXCEPTIONAL CHILDREN. Assistance for program chairman of parent-teacher organizations who are interested in handicapped children will be provided by Beatrice Gore, Consultant in the Education of Physically Handicapped Children, State Department of Education, and David Franklin, Crippled Children's Society of Los Angeles County. **91**

July 9 to August 25—MUSIC AND ART EUROPEAN TOUR. A comprehensive view of the great cities and countries of Europe, including Paris, Nice, the French Riviera; and Italy, Switzerland, Bavaria, Austria, Germany, Holland, Belgium, England, and Scotland. Early reservations are necessary. Ralph J. Peterson, tour leader. **92**

July 12 to July 30—SCHOOL ARTS AND CONSTRUCTION WORKSHOP, Second Session **93**

July 12 to July 30—TECHNIQUES AND MATERIALS FOR TEACHING MERCHANDISING SUBJECTS (Evenings). Analysis of the various methods and devices used in teaching merchandising subjects will be taught by members of the Bureau of Business Education, State Department of Education, and the Co-ordinator of Merchandising Institutes for the Los Angeles public schools. **94**

July 12 to July 30—WORKSHOP IN GENERAL MUSIC. Activities will center around the impact which music makes on the lives of secondary school students. Areas of musical influence will be defined and patterns of experience will be developed within each area. Keith Snyder, Chairman, Music Department, will direct the workshop. **95**

August 2 to August 13—WORKSHOP IN AIR AGE EDUCATION. Sponsored by the State Department of Education and the Los Angeles State College, and conducted off campus at points of civil and military aviation interest. 96

LOYOLA UNIVERSITY OF LOS ANGELES

7101 West 80th Street, Los Angeles 45, California

Day Summer Session: June 21 to July 30, 1954

Fees: Per credit hour, undergraduate, \$13.50; graduate, \$15.00; auditor, \$9.00

Wm. J. McIntosh, S. J., *Director of the Summer Session*

June 21 to July 30—HUMAN RELATIONS WORKSHOP (6 units). For elementary and secondary school teachers concerned with group tensions in their classrooms; for college professors, community leaders, case workers, librarians, guidance workers, counselors, psychologists, public health workers, policemen, public administrators, educational administrators, and others interested in ways of promoting harmonious interpersonal relations. General meetings, lectures, demonstrations, group and section meetings, excursions, conferences. Living accommodations for laymen and religious are available on campus; for laywomen in nearby vicinity. Tuition (not including living accommodations), \$100. A number of tuition scholarships are available, offered by agencies and institutions not under supervision of the University; those interested may obtain a list of the agencies from the Director of the Summer Session. 97

MILLS COLLEGE

Oakland 13, California

Summer Session: June 21 to July 30, 1954

Fees: Tuition: \$20 per unit

Campus residence: student rooms, \$75 for 6 weeks; \$15 per week

Evaline Uhl Wright, *Director of the Summer Session*

June 21 to July 9—PROBLEMS IN EARLY CHILDHOOD EDUCATION (3 units). The workshop will concentrate on three major topics: Work with Children in the Nursery School; Work with Parents; Growth and Development of Children. Extensive opportunities for observation of children. 98

June 21 to July 30—DANCE IN EDUCATION (2 units). A consideration of the organization and use of dance material for different age and ability levels; opportunity for observation and assistance in children's dance classes. 99

June 21 to July 30—KINDERGARTEN WORKSHOP (4 to 6 units). Guided observation of children, study of modern materials and procedures in language development; analysis of community resources; laboratory experiences in industrial arts, music, social studies. 100

June 21 to July 30—LA MAISON FRANCAISE (2 to 6 units). A special program for teachers of French in the schools, with native French scholars and teachers; residence accommodations provide opportunity for daily use of the language. 101

June 21 to July 30—PRACTICUM IN PSYCHODIAGNOSTIC WORK WITH CHILDREN (2 to 4 units). Open to school psychologists and other advanced students in clinical psychology and related fields. Esther Lee Mirmow, Chairman. 102

June 21 to July 30—PRACTICUM IN REMEDICAL READING (3 units). Open to advanced students; opportunity for direct work with children. Esther Lee Mirmow, Chairman. 103

June 21 to July 30—CLASSES FOR CHILDREN will be conducted throughout the session in creative dramatics, dance, art, French, and music. For further information address the Director of the Summer Session. 104

MOUNT ST. MARY'S COLLEGE

12001 Chalon Road, Los Angeles 49

Summer Session: June 28 to July 31, 1954

Fees: \$8 per semester hour

Sister Rose Gertrude, *Dean of the Summer Session*

June 28 to July 31—**ART WORKSHOP** (Art 330, 2 units). Industrial Arts for the elementary school planned to meet the requirements in art for the general elementary credential. Students will be given an opportunity to work on problems suited to a given grade level. **105**

June 28 to July 31—**WORKSHOP IN SCIENCE FOR THE ELEMENTARY SCHOOL** (Zool. 160, 2 units). Problems in science on the various grade levels will be considered. Field trips will form an important part of the workshop. **106**

June 28 to July 31—**PRACTICUM IN MUSIC EDUCATION** (Music 270 B, 2 units). Lesson planning and teaching of music in the secondary school. Problems in the theoretical and applied music in the secondary school will be considered. **107**

OCCIDENTAL COLLEGE

1600 Campus Road, Los Angeles 41

Summer Session: June 21 to July 30, 1954

Fees: 1-3 units, \$16 per unit; 4 units, \$15 per unit; 5 units, \$14 per unit; 6 units or more, \$13 per unit; auditor's fee, \$10 per unit

Charles F. Lindsley, *Director of Summer Session*

June 21 to July 2—**CLINIC IN TRACK AND FIELD** (P.E. S101, 2 units). Designed for teachers and coaches who are now, or soon will be, active in coaching track and field, to meet specific needs of the coach and give the techniques of the sport. Attention will be directed toward more effective training methods, practical field work, and use of motion pictures illustrating championship form. Payton Jordan, supervisor. **108**

June 21 to July 2, Repeated July 19 to July 30—**WORKSHOP IN NURSERY SCHOOL PROBLEMS** (Ed. 141, 2 units each workshop). Open to directors, teachers, and parents who participate in the program and management of private nursery schools, parent co-operatives, church nursery schools, child care centers, and play groups. Observation and participation in special working groups based on interests. Enrollment limited. 9:00 a.m.-12:00 and 1:30-3:30 p.m., Mondays, Wednesdays, and Thursdays. Abigail A. Eliot, director. **109**

June 21 to July 2; July 6 to July 16—**CHILDREN'S LITERATURE** (Ed. 127, 2 or 4 units). Two two-week workshops; verse, story telling, and books for the nursery school, kindergarten, and primary years; literature and language play of the pre-reading child in relation to intellectual, emotional, and social development; criteria in book selection; realism and fancy for school age children; educational and recreational function of stories of adventure, hero tales, legends, ballads and other poetry. Developing taste through familiarizing children with classics and current favorites. Observation, demonstration at Pacific Oaks Friends School and in public schools and libraries to be scheduled with the instructor at the time of registration. Mrs. Frances McAllister, instructor. **110**

June 21 to July 30—**MUSIC MATERIALS AND METHODS: ELEMENTARY** (Ed. S123, 2 units). Practical problems in organizing, teaching, and presenting music in the elementary school. Classroom practice in teaching the complete course of study for singing activities and appreciation. Workshop in making simple rhythm instruments for use in the classroom. Written lesson plans for all types of lessons. 7:00-9:15 p.m. Tuesdays, Thursdays. Charles Jones, Music Consultant, Kern County, instructor. **111**

June 21 to July 30—EDUCATIONAL WRITERS WORKSHOP (Ed. 140, 2 to 4 units). A seminar co-sponsored by the California Teachers Association and the California Education Press. Studies, research opportunities, and practical writing experience for teachers, professional writers, and school administrators interested in professional writing for publication and public relations. Study of publication plans and projects. Charles John Falk, Associate Professor of Education, in charge.

112

June 21 to July 30—WORKSHOP IN ELEMENTARY SCHOOL ART (Ed. S198, 2 units). Art principles and materials as applied to elementary school work. Course fee, \$2.50. Leader: Mrs. Grace de Ford Patterson, Art Consultant, Los Angeles public schools.

113

July 3 to September 13 (approximate dates)—EUROPEAN MUSIC STUDY TOUR (Music 210, 4 units). Study in the great European music centers in conjunction with the Students' International Travel Association. Academic work will be directed by Olaf Frodsham, Assistant Professor of Music, leader of the tour. For further information address the Director of the Summer Session.

114

July 6 to July 16; repeated July 19 to July 30—MUSIC FOR YOUNG CHILDREN (Ed. 116, 2 units each workshop). A workshop in which emphasis will be laid on increasing the teacher's own musical equipment and understanding as well as ability to guide the musical development of children. Demonstration, observation, participation at the Pacific Oaks Friends School, 9:00-12:00 daily, and 1:30-3:30 three afternoons each week. Instruction by Margaret Axtel Crane, Music Supervisor at Shady Hill School, Cambridge, Massachusetts.

115

July 12 to July 23—WORKSHOP IN CONSTRUCTION FOR THE ELEMENTARY SCHOOL (Ed. S137, 2 units). For teachers and supervisors who use industrial arts as an integral part of the elementary school program. The use of tools and various materials suitable for the elementary schools. Mrs. Thelma M. Epley, instructor.

116

July 19 to July 30—WORKSHOP IN ELEMENTARY SCIENCE (Ed. S134d, 2 units). Materials and methods of teaching science to young children; creating science experiences; developing fundamental concepts; selecting and preparing materials for instruction; evaluating growth. Mrs. Thelma M. Epley, instructor.

117

July 20 to July 31—WORKSHOP IN REMEDIAL ASPECTS OF ELEMENTARY SCHOOL TEACHING (Ed. 146, 2 units). Diagnosis and treatment of school disabilities in children. Practical methods and materials for corrective instruction. Under direction of Mrs. Lora Nicholson, director of the Nicholson Clinic, experienced in the practical aspects of remedial work, 1:00-1:50 daily.

118

PACIFIC UNION COLLEGE, Angwin, Napa County

First Summer Session: June 14 to July 8, 1954

Second Summer Session: July 12 to August 5, 1954

Third Summer Session: August 9 to August 29, 1954

Fee: \$12 per quarter unit

Cecil L. Woods, Director of the Summer Sessions

June 14 to July 8—ELEMENTARY EDUCATION WORKSHOP. Alice Nielsen will be assisted by visiting professors Louise Ambs and Mary Elquist, and local staff.

119

June 14 to July 8—HOME ARTS WORKSHOP. Mrs. Margaret Eighme in charge.

120

June 14 to August 27—BIOLOGICAL FIELD STATION, operated on the Mendocino coast at Albion, south of Fort Bragg, provides a laboratory for students of zoology, botany, ecology, nature education, and marine biology. For information address H. W. Clark, director, Angwin, California, before June 14; after June 14 write to Albion.

121

PASADENA COLLEGE, 1539 East Howard Street, Pasadena 7

Summer sessions: June 21 to July 30, 1954

Fees: \$12.50 per unit

Harvey B. Snyder, *Head Department of Education*

June 21 to July 30—SPECIAL SIX-WEEK PROGRAM FOR ELEMENTARY TEACHERS (6 or 7 units), including Art Methods for Elementary Teachers, Child Growth and Development, Elementary School Music Methods, Storytelling for Teachers, Audio-visual Aids in Education, and a Seminar in Mental Hygiene as Related to Childhood and Youth. **122**

June 21 to July 30—WORKSHOP IN DIAGNOSIS AND REMEDIAL TREATMENT OF READING DIFFICULTY OF THE ELEMENTARY SCHOOL CHILD (4 units). Open to experienced teachers. Meets forenoons daily for six weeks. **123**

GEORGE PEPPERDINE COLLEGE, 1121 W. 79th Street, Los Angeles 44

First Summer Session: June 21 to July 30, 1954

Second Summer Session: August 2 to August 27

Tuition: \$15 per semester unit (10% reduction for teachers)

Lonnie T. Vanderveer, *Director of Summer Sessions*

June 21 to July 30—TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3 units). Practical work to help the elementary teacher to bring all phases of science to the classroom. Field study of California plant and animal life. **124**

June 21 to July 30—TEACHING THE RETARDED CHILD (2 units). Dealing with the characteristics of the retarded child, activities suited to develop his potentialities, and material that will be challenging and interesting to him. Valuable to all teachers, but particularly worth-while for teachers of retarded children. William Vaughan, *instructor*. **125**

July 8 to 10—FIFTH ANNUAL PHYSICAL EDUCATION AND REHABILITATION INSTITUTE (1 unit). A unique Institute and Clinic designed to aid coaches and trainers in conditioning athletic teams through new techniques and modern equipment. Review and analysis of new methods through practical application and personal participation. The physiological principles to be discussed are also of great value in general physical education, particularly in corrective fields. **126**

August 27 and 28—BAND DIRECTORS' CLINIC, to include 100-150 local and out-of-town participants. A local band will be used for demonstration by Hal Bergan, who has been summer clinician at the universities of Minnesota, Wisconsin, and Michigan. **127**

SACRAMENTO STATE COLLEGE, American River at J Street, Sacramento 19

Summer Session: Six weeks—June 21 to July 30, 1954

Eight weeks—June 14 to August 6, 1954

Fees: \$8 per semester unit

Harold B. Roberts, *Dean of Educational Services and Summer Session*

June 21 to July 16—GUIDANCE WORKSHOP (4 units). Opportunity for improvement of competency in group guidance and personal counseling through presentation, demonstration, and participation. Consideration of group guidance techniques, individual analysis, and developmental guidance problems. Prerequisite: One introductory or basic course in guidance or equivalent. Daily, 9 to 12 (4 weeks). **128**

June 21 to July 30—ART SEMINAR (1 unit). For those interested in analysis and criticism of modern painting, sculpture, and experimental art films. Special emphasis on movements known as cubism, futurism, abstraction, expressionism, and surrealism. Guest artists and critics will participate in discussions and demonstrations. Wednesday evenings, 7:30 to 10. **129**

June 21 to July 30—BUSINESS INTERNSHIP FOR TEACHERS AND COUNSELORS (2 to 6 units). Opportunity for firsthand experience in the operation of businesses in the Sacramento area; business and industrial firms and public agencies are co-operating to provide observation and participation in business activities. **130**

June 21 to July 30—SEMINAR IN MUSIC APPRECIATION (1 unit). A series of evening lecture-demonstrations on various phases of music, directed toward increasing musical understanding of the average listener. Each demonstration will present a different phase of music, utilizing personal performances and lectures by authorities. Tuesdays, 7:00 to 9:30 p.m. **131**

June 21 to July 30—WORKSHOP IN ELEMENTARY SCHOOL MUSIC (4 units). Opportunities for classroom teachers and music specialists to evaluate procedures and programs, consider new techniques, present discussions, study individual problems, examine professional books, records, and other aids. Attention will be given to rhythmic and melodic approach for lower grades and harmonic approach for upper grades. **132**

June 21 to July 30—WORKSHOP IN EDUCATION OF MENTALLY RETARDED CHILDREN (6 units upper division or 4 units graduate). For teachers of mentally retarded children and candidates for the Special Secondary Credential in this field. Consideration of curriculum adjustments for mentally retarded children, psychological and educational problems of this group, legislative and administrative aspects, counseling with parents, evaluation procedures. A supervised arts and crafts period, directed observation of two demonstration classes of educable mentally retarded children; individual and group work on special projects under experienced leaders. Eli M. Bower, Marvin C. Groelle, Co-ordinators. **133**

June 21 to July 30—WORKSHOP IN TEACHING BRASS INSTRUMENTS (2 units). Designed to stress technical and instructional aspects of brass instrument playing and teaching. Consideration will be given to all brass instruments, and instruction at beginning, intermediate, and advance levels. Meets daily. **134**

June 27 to September 4—AUDUBON CAMP OF CALIFORNIA, in the Sugar Bowl of the Sierra Nevada. Outdoor learning, informal field trips, special emphasis on problems of conservation. Qualified individuals may earn 2 units for successful participation in one of the five two-week periods (June 27-July 10; July 11-July 24; July 27-August 7; August 8-August 21; August 27-September 4). Fifty campers per session. Cost, \$95 for two weeks, plus college fees \$7.50 per unit. For information before June 24, write National Audubon Society, 693 Sutter Street, Room 201, San Francisco; after June 24, write Audubon Camp of California, Norden, California. **135**

July 19 to July 30—WORKSHOP IN COUNSELING (2 units). Planned for administrators, counselors, guidance directors, and teachers, to develop and increase competency in individual counseling techniques. Practice interviewing, demonstrations, directed observation and analysis of audio-visual aids in the area of counseling, and lecture-discussions of counseling principles and problems. Daily, 9:00 a.m. to 12. **136**

SAN DIEGO STATE COLLEGE

San Diego 15

Summer Session Term I: June 28 to August 6, 1954

Summer Session Term II: August 9 to August 27, 1954

Fees: \$8 per semester unit

Charles W. Lamden, Dean of Summer Sessions

June 28 to July 9—TYPEWRITING WORKSHOP (Bus. 191-S, 2 weeks, 2 units). Designed for typing teachers who want to study specific or general problems in typing; includes methodology, materials, activities, testing programs, and previewing or development of audio-visual materials. For further information, address Dr. E. Dana Gibson, Chairman, Business Education Department. **137**

June 28 to August 6—**CO-OPERATIVE BUSINESS WORK EXPERIENCE** (Bus. 193-S, 1-2 units). Designed to provide business teachers with an opportunity to refresh their business experience and contacts in a selected field of interest in business or industry. The experience may be concentrated or extended through the term. Individual counseling and group discussion. For further details, address Dr. E. Dana Gibson, Chairman, Business Education Department. **138**

June 28 to August 6—**DIRECTED INTERNSHIP: COUNSELING** (Ed. 316B-S, 6 units). Advanced work in counseling and guidance at the secondary level with an opportunity to practice counseling and other guidance activities with a group of high school students under the supervision of the college staff. Open to counselors and teachers who have completed 12 or more semester units in counseling and guidance. For further information address Dr. George A. Koester. **139**

June 28 to August 6—**EDUCATION PRACTICUM (KINDERGARTEN-PRIMARY)** (Ed. 146-S, 4 units). The theory of early childhood education with emphasis on a modern kindergarten program. Opportunities for observation of children and discussion of procedures of the kindergarten in the Campus Laboratory School. **140**

June 28 to August 6—**SUMMER DEMONSTRATION SCHOOL**. The Campus Laboratory School will offer a program for children in kindergarten and selected grades from one through six, staffed by outstanding demonstration teachers, and exemplifying modern practices in elementary education. **141**

June 28 to August 6—**SUMMER SCIENCE LECTURE SERIES** (Biol. or Zool. 170-S, 1 unit; Phy. Sci. 140-S, 1 unit; and Psych. 180-S, 1 unit). Three series of six weekly lectures each, in biology, in physical science, and in psychology will be held on campus in the evenings. Outstanding research scientists in their respective fields will give first-hand reports of contemporary and recent investigations. The lectures are open to all interested persons. A limited number of qualified students will be allowed to enroll for credit. **142**

June 28 to August 6—**WORKSHOP IN COMMUNITY INFLUENCES ON LEARNING AND CURRICULUM PLANNING** (Ed. 208, 3 or 6 units). Advanced study, for experienced teachers, of community influences on learning, child growth and development, group techniques, and implications for curriculum planning. Opportunity for work on individual problems. In addition to a core staff, well versed in elementary and secondary curriculum, a number of consultants will give orientation in specialized areas. For additional information, write Dr. William Jack Stone, Director. **143**

June 28 to August 6—**WORKSHOP IN INSTRUMENTAL TECHNIQUES AND CHAMBER MUSIC FOR BRASS INSTRUMENTS** (Music 123-S, 2 units). Analysis and interpretation of the literature for brass instruments, with performance in various ensemble units. Repertoire will include both solo and ensemble literature at varied levels of advancement. Music from the Late Renaissance to the present for Brass Choir will be studied and performed with evaluation for practical teaching as a principal objective. For further information, write Pattee Evenson, Chairman, Music Department. **144**

June 28 to August 6—**WORKSHOPS IN SOCIAL STUDIES EDUCATION, ELEMENTARY** (Ed. 149D-S, 6 units), and **SECONDARY** (Ed. 189-S, 6 units). Designed for teachers working individually or together on specific or general problems of teaching social studies at their grade levels in background, plans, materials, methods, resource units, core programs, utilization of the state framework in social studies, education of exceptional children, experimentation, and evaluation. Instruction under the guidance of consultants from schools in San Diego County and the College. For more detailed information, address Dr. Joe A. Apple. **145**

June 28 to August 31—**EUROPEAN STUDY TRAVEL TOUR** (Gen. Cult. 17-S; 117-S, Eur. Civ., 3 units; and Gen. Lang. 30, Pronunciation of French, Italian, and German, 3 units). The group will sail from New York and travel in Europe by chartered motor coach through France, Italy, Austria, Switzerland, Germany, Holland, Belgium, and England. Besides visits to churches, art galleries, museums, monuments, educational, civic, and industrial institutions, the program provides for

attendance at plays, operas, and concerts. For more specific information regarding costs, itinerary, travel arrangements, and study regulations, write to Dr. Ernest M. Wolf, Director. **146**

July 6 to August 17—WORKSHOP IN CHORAL ART (Music 118-S, 6 units). The second annual Workshop in Choral Art, again under the direction of Robert Shaw and Julius Herford, with Mack Harrell as guest lecturer, will include study and performance integrated with the symphony and chamber music concerts of the San Diego Symphony Orchestra. Practices in performance in the Renaissance, Baroque, classical and contemporary periods will be emphasized. For a special brochure describing the Workshop, write to Pattee Evenson, Chairman, Music Department. **147**

July 12 to July 16—THIRD ANNUAL CONFERENCE ON THE TEACHING OF MATHEMATICS (Ed. 129C, 1 unit). Lectures, discussions, and demonstrations on problems and current developments in teaching of mathematics in the elementary and secondary schools. Designed for teachers, supervisors, and administrators. For further information, write to Mrs. Marguerite Brydegaard, Director. **148**

July 19 to July 23—EIGHTH ANNUAL AUDIO-VISUAL CONFERENCE (Ed. 171, 1 unit). Teachers, school administrators, audio-visual directors, and school building representatives are invited to a one-week conference concerned with the administration of an audio-visual program, and the utilization of materials in the classroom. For further information, write to Dr. James S. Kinder, Co-ordinator of Audio-Visual Services. **149**

July 12 to July 23—OFFICE PRACTICE WORKSHOP (Bus. 192-S, 2 weeks, 2 units). Teachers of office practice, machine practice, and secretarial practice will find this workshop valuable for the development of materials and for the organization of these programs to meet the needs of their school as it relates to physical equipment, room arrangements, and methodology. The excellent quantity and quality of machines and materials available make it possible for the teacher to examine representative classroom equipment. For further information, write to Dr. E. Dana Gibson, Chairman, Business Education Department. **150**

July 26 to July 30—TENTH ANNUAL GUIDANCE CONFERENCE (Ed. 156, 1 unit). Designed to assist teachers, counselors, administrators, and others to increase their understanding and competence in the field of student personnel work. Planned co-operatively with representatives of school in San Diego City and County. Emphasis on group discussion. Lectures, panel presentations, and occasional demonstrations will be utilized as needed. For further information, write to Dean Hilding B. Carlson. **151**

August 9 to August 13; and August 23 to August 27—SUPERVISION OF STUDENT TEACHING (Ed. 271, 2 units). Study of selection, orientation, induction, counseling, and evaluation of credential candidates and student teachers; helping student teachers to plan lessons, conduct classroom learning, analyze pupil difficulties and achievement. Open to experienced teachers interested in the teacher-education program. (Students are encouraged to attend the national workshop on student teaching, August 16 to 20 at Whittier, in conjunction with this course). For further information, write Dr. Donald Wilson. **152**

August 9 to August 20—THIRD ANNUAL WORKSHOP IN HEALTH EDUCATION (Health Ed. 154, 2 units). Emphasis on curriculum development in health, under the leadership of Glenn Arnett, Co-ordinator of Health Education, Physical Education, and Recreation, San Diego County. Sponsored by San Diego County Tuberculosis and Health Association; San Diego Branch, American Cancer Society; San Diego Chapter, National Foundation for Infantile Paralysis; San Diego Department of Public Health; schools of San Diego city and county; and the College. Nationally eminent consultants in school and community health will serve throughout the workshop. A special brochure is available on request. **153**

August 9 to August 27—INSTITUTE ON WORLD AFFAIRS (Pol. Sci. 168-S, 3 units). Dr. Robert F. Wilcox will direct a three-week institute and workshop covering selected problems in international relations and politics. The role of the United

States as a world power in its relationships with the U.S.S.R. and its satellites, the nations of Western Europe, and India will be emphasized. Group discussions will be augmented by guest speakers of repute in their own fields of specialization. **154**

SAN FRANCISCO COLLEGE FOR WOMEN, Lone Mountain, San Francisco 18

Summer Session: June 28 to August 5, 1954

Fees: \$10 per semester unit, undergraduate

\$15 per semester unit, graduate

For information address Dean of Summer Session

June 24 to June 30 (one week)—THE PHYSICAL WORLD (Geog. 117, 1 unit). Examination of certain processes and phenomena of man's physical environment. **155**

June 28 to August 5—WORKSHOP IN READING METHODS (Ed. 134, 3 units). **156**

August 8 to August 13 (one week)—SPECIAL PROBLEMS IN EDUCATION (Ed. 149, 2 units). **157**

SAN FRANCISCO STATE COLLEGE, 1600 Holloway Avenue, San Francisco 27

Summer Sessions: Intersession, June 21 to June 25, 1954

Regular session, June 26 to August 6, 1954

Post session, August 9 to August 27, 1954

Off-campus sessions, at Modesto, Santa Rosa, and Vallejo, June 21 to July 30, 1954

Fees: \$8 per semester unit

Leo F. Cain, Dean of Summer Sessions

June 9 to September 2—STUDY TOURS. For specific information regarding costs, travel arrangements, itinerary, college credit, etc., write as early as possible directly to the director of the tour, in care of the College.

June 9 to July 29 or June 20 to August 12—EUROPEAN STUDY TOUR (6 units). Leader: Joseph Axelrod. **158**

June 12 to September 11—WORLD BUSINESS STUDY TOURS (3, 6, or 9 units). Leader: Wayne M. Stevens, Director, School of World Business. **159**

June 20 to August 2 or 24—STUDY TOUR OF JAPAN, MANILA, AND HONG KONG (6 units). Leader: Lyle E. Gibson. **160**

June 22 to August 12—AROUND THE WORLD AIR TOUR (6 units). Leaders: Alfred Sumner and Frederick Terrien. **161**

June 29 to September 1—EASTERN MEDITERRANEAN STUDY TOUR. Leader: Alfred G. Fisk, Professor of Philosophy. **162**

July 7 to September 2—STUDY SEMINAR IN WESTERN EUROPE (6 units). Leader: Louis Wasserman, Associate Professor of Philosophy and Government. **163**

July 9 to August 25—MUSIC AND ART OF WESTERN EUROPE (6 units). Leader: Sterling Wheelwright. **164**

June 14 to June 18—INDUSTRIAL ARTS CONFERENCE (I.A. s200, 1 unit). Conducted by John Ludington, Specialist for Industrial Arts Education, U. S. Office of Education. 6:00 to 9:15 p.m. Address inquiries to Dwight M. Nichols. **165**

June 21 to June 25—BUSINESS TEACHERS CLINIC: BOOKKEEPING AND CLERICAL TRAINING (Bus. s199, 1 unit). A five-day series of varied sessions on trends and new methods in bookkeeping instruction and on purposes and possibilities in the clerical training area. Address inquiries to S. J. DeBrum. **166**

June 21 to June 25—WORKSHOP ON APPLICATION OF PRINCIPLES OF MENTAL HYGIENE TO THE SCHOOL LIFE OF THE ELEMENTARY AND SECONDARY SCHOOL CHILD (Ed. s199, 1 unit). Teacher-pupil relations; mental hygiene and the three R's; opportunities and limitations in the school setting in promoting better mental health of children. Address inquiries to George Sheviakov. **167**

June 21 to July 30 (at Modesto Junior College)—WORKSHOP IN SECONDARY EDUCATION (Ed. s153.1, 3 units). Practical experience in curriculum development with special emphasis on resource units, classroom procedures, selection and use of curriculum material. Fields to be included are basic business subjects, drama and speech, language arts, mathematics, science, and social studies. **168**

June 21 to July 30 (at Santa Rosa Junior College)—WORKSHOP IN SECONDARY EDUCATION (Ed. s153.1, 3 units). Designed for teachers who are interested in the study and development of modern secondary curriculum methods and instructional materials. Opportunities for work on problems of a particular district or school (including junior high schools). **169**

June 28 to August 6—ACTION PROGRAMS IN HUMAN AND GROUP RELATIONS (Ed. s204.4, 6 units). For teachers, principals, supervisors and community group workers interested in specific programs in human and group relations. Special groups in laboratory work on projects and plans, in guidance, curriculum development, supervision, or human relations. Address inquiries to Miss Hilda Taba. **170**

June 28 to August 6—EDUCATION OF EXCEPTIONAL CHILDREN (3 to 6 units). An extensive program will be offered in speech correction and in education of the mentally retarded, the visually, acoustically, or orthopedically handicapped child. More than 45 courses will be offered, including six workshops: **171**

WORKSHOP IN SPECIAL EDUCATION OF THE MENTALLY RETARDED (Ed. s166.2, 3 to 6 units) **172**

ADVANCED WORKSHOP IN EDUCATION OF MENTALLY RETARDED (Ed. s266, 6 units, offered at Sonoma State Hospital) **173**

WORKSHOP IN EDUCATION OF CHILDREN WITH IMPAIRED VISION (Ed. s161.8, 1 to 6 units) **174**

WORKSHOP IN EDUCATION OF BLIND CHILDREN (Ed. s161.9, 3 to 6 units) **175**

ADVANCED WORKSHOP IN SPEECH THERAPY (Ed. s265.8, 3 to 6 units) **176**

Observation and clinical practice may be undertaken in the demonstration school, and will be available through the facilities of local hospitals, California Youth Authority, public schools, and the Northern California School for Cerebral Palsied Children at Redwood City. The program for teachers of orthopedically handicapped children will be carried on at Redwood City, with children from prenursery through elementary school age; specialists in medicine, the therapies, education, speech, social work, psychology, vocational guidance, rehabilitation and placement, as well as parents of the children will participate. **177**

June 28 to August 6—INDUSTRIAL ARTS TEACHERS WORKSHOPS (2, 4, or 6 units). Two-week sessions permitting students to concentrate in one phase of the industrial arts program for 2, 4, or 6 weeks, or to select different areas for emphasis in 3 successive periods: June 28 to July 9; July 12 to July 23; July 26 to August 6. Areas of emphasis are General Shop, Metalwork, and Woodwork. Address inquiries to Dwight Nichols. **178**

June 28 to August 6—INTERNSHIP AND SEMINAR IN COUNSELING AND GUIDANCE (Ed. s205.2, 3 or 6 units). On-the-job training in guidance and counseling under supervision; evaluation of counselor effectiveness; analysis of professional problems. For advanced students in guidance and student personnel services. Address inquiries to Miss Virginia Block. **179**

- June 28 to August 6—**RADIO WORKSHOP** (Radio s114, 2 units). Advanced lectures and laboratory in programming and production. Students are given various positions on radio production staff to advance their training in radio announcing, acting, script writing, programming, sound effects, and control-room techniques. **180**
- June 28 to August 6—**TELEVISION WORKSHOP** (Radio s120, 2 units). Programming, production, direction, acting, script writing, and scenic design. **181**
- June 28 to August 6—**WORKSHOP IN ACTING AND DIRECTING** (Drama s108.1, 3 units). Practical work on completely new stage facilities. Address inquiries to Jules Irving. **182**
- June 28 to August 6—**WORKSHOP IN ELEMENTARY SCHOOL SCIENCE** (N.S. s100, 2 units). Content, materials, and methods for improved teaching of science in elementary schools. Emphasis on appropriate physical sciences. Prerequisite: competency in nature study. **183**
- June 28 to August 6—**WORKSHOP ON LEADERSHIP IN PARENT EDUCATION** (Ed. s203.1, 3 or 6 units). Lectures, demonstrations, analysis of leadership techniques and observation of parent-education meetings conducted in the Bay area. Particular assistance for nursery school and parent-teacher organization leaders. Auditors welcome. Address inquiries to Dr. George Sheviakov. **184**
- June 28 to August 6—**WORKSHOP IN MATHEMATICS FOR TEACHERS** (Math. s184, 3 units). Content, materials, and methods for improving the teaching of mathematics in grades 1 to 12. For teachers, supervisors, guidance workers, and administrators. **185**
- June 28 to August 6—**WORKSHOP IN NATURAL HISTORY OF CALIFORNIA** (Biol. s270, 2 units). Designed to provide teachers, youth leaders, and beginning naturalists with basic information for an appreciation and understanding of California's natural wealth. Enrollment limited to 24. Study of wildlife through short field trips, motion pictures and slides. Construction of teaching aids and devices. **186**
- June 28 to August 6—**WORKSHOP IN SECONDARY SCHOOL DRAMA AND PLAY PRODUCTION** (Drama s102.1, 3 units). Sources, materials, class activities, play selection, casting, rehearsal. Sessions on work at junior high level. A play will be produced with a select group of high school students and application of theory and technique will center in this exercise. **187**
- June 28 to July 2—**HOME LIGHTING WORKSHOP** (Home Ec. s199, 1 unit). The science of home lighting offered through the joint sponsorship of the Better Light-Better Sight Bureau of New York City, the Northern California Electrical Bureau, and the Home Economics Department of the College. For homemakers, homemaking and science teachers, interior designers, color consultants. Address inquiries to Miss Gertrude Luehning. **188**
- June 30 to August 5—**SUMMER DEMONSTRATION SCHOOL**. Classes for children from four years nine months through eleven years of age, from 9:00-12:00 daily. Emphasis on social studies, language arts, and creative activities. Neither remedial work nor credit for completion of advanced work will be given. Handicapped children will be welcome and will be integrated into the regular program. All children must attend regularly for the entire period. No extended day care can be offered this year. For information write Mrs. Margaret LaGrille. **189**
- July 1 to August 17—**CAMPING AND OUTDOOR EDUCATION AT COLLEGE CAMP** on Yuba Pass near Sierra City (1 to 7 units). July 1 to July 4, Pre-Camp Training Session; July 5 to August 15, Children's Laboratory Camp; August 15 to August 17, Post-Camp Evaluation Session. It will be possible for students selected as camp counselors to receive subsistence and earn up to seven units of credit. Address inquiries to Recreation Department. **190**

August 9 to August 20—WORKSHOP IN AVIATION EDUCATION (Ed. s196.1, 2 units). Registration Monday, August 9, at San Mateo Junior College. A co-operative project co-sponsored by San Francisco State College, San Jose State College, and the State Department of Education to develop further understanding of the role of aviation in an interdependent world. Field work in both military and civil aviation as basis for development of curriculum materials for local use at both elementary and secondary levels. Address inquiries to Willard Leeds. **191**

August 9 to August 27—WORKSHOP: THE SCHOOL AND PREVENTION AND CONTROL OF DELINQUENCY (Ed. s197.1, 3 weeks 3 units). Designed to assist school administrators, guidance officers, and counselors in coping more effectively with problems of juvenile delinquency. Application for admission should be directed before August 1 to Dean of Summer Sessions. 8:30 to 12:00, 1:00 to 2:30 daily. **192**

August 9 to August 27—WORKSHOP IN JUNIOR AND SENIOR HIGH SCHOOL SCIENCE (N.S. 184, 3 units). **193**

August 9 to August 27—WORKSHOP IN BUSINESS EDUCATION (Bus. s293, 3 units). **194**

SAN JOSE STATE COLLEGE, San Jose 14

Summer Quarter: June 28 to September 3, 1954

Six-week Session: June 28 to August 6, 1954

Four-week Session: August 9 to September 3, 1954

Hartnell College Session: June 28 to August 6, 1954

Fees: \$5.35 per quarter unit (unless otherwise specified)

William G. Sweeney, Acting Dean of Summer Quarter

June 20 to July 10—Eighteenth Annual WEST COAST NATURE SCHOOL (3 sessions, 1 week each, 2 quarter units per session, \$7.50 per unit): June 20 to June 26, Lassen National Park; June 27 to July 3, Yosemite National Park; July 4 to July 10, Asilomar Conference Grounds. Each session is held in a region of general interest to students of nature, where headquarters is established from which field trips start each morning under leadership of a staff member. The groups rotate so that each student takes one day's trip with each staff member, gaining familiarity with the geology and physiography of the region, its trees and shrubs, wild flowers, birds, mammals, reptiles, and insects. The 10 staff members are present or former members of the College faculty. For further information and reservations, address Gertrude Witherspoon Cavins. **195**

June 24 to August 28—SCANDINAVIAN EDUCATIONAL TOUR (Ed. 180S or Soc. Sci. 180S, 6 to 9 quar. units). A 63-day tour of Norway, Sweden, and Denmark with two weeks at the University of Oslo, two at the Swedish Institute, and two at the Danish Institute. Sponsored by the College and the California Teachers Association, conducted by Miss Doris Linder, expert on Scandinavia. A student may earn six quarter units in education or social science at San Jose State College and three at the University of Oslo. For information address Dean of Summer Sessions. **196**

June 28 to August 6—CURRICULUM AND METHODS OF TEACHING MENTALLY RETARDED (Ed. 271S, 3 quar. units). Techniques and methods of teaching mentally retarded children and those in need of remedial instruction. Each student will plan a curriculum for use in the field of special education. Opportunity to teach in the remedial reading clinic. **197**

June 28 to August 6—OBSERVATION AND PARTICIPATION IN THE DEMONSTRATION SCHOOL (Ed. 140AS, 140BS, 3 or 6 quar. units; Ed. 142S, 3, 6, or 9 quar. units). A Demonstration Elementary School, kindergarten through grade 7, taught by skilled demonstration teachers from local schools and different sections of the United States will permit experienced teachers or beginners to spend one to three hours daily in observation and participation, supplemented by appropriate workshops and conferences. Workshops for adult observers will include the areas of music, art, natural science, speech, games and rhythms, and numbers.

Since Demonstration School enrollment is limited, prospective Summer Session students who plan to enroll their children in this school should make application before June 1 to Mrs. Ann Fabrizio, Secretary of the Demonstration School. **198**

June 28 to August 6—KINDERGARTEN-PRIMARY WORKSHOP (Ed. 190S, 6 to 9 quar. units). A refresher for experienced kindergarten-primary teachers, orientation for emergency teachers. Schedule will include daily observation in the Demonstration School, conferences with the demonstration teacher and staff, practical work on the kindergarten-primary level; sections in program organization, social studies, storytelling, language arts, reading, nature study, arts and crafts, music and rhythms, mental hygiene, health and physical education. 8:00-12:00 daily, 1:00-2:00 TTh. **199**

June 28 to August 6—REMEDIAL READING (Ed. 217S, 3 quar. units). The psychology and methods used in teaching the slow-learning, in prevention of remedial cases, and in correction of reading difficulties. Attention will be directed toward teaching the slow child in the regular classroom.

Remedial Clinic. Students may elect to earn part of their credit for Ed. 217S by teaching a handicapped child one hour each day (at 10:00 or 11:00) under supervision of the instructor. **200**

June 28 to August 6—SCIENCE EDUCATION WORKSHOP (Sci. Ed. 180S, 6 quar. units). Exploration of the possibilities for science in the elementary school. The approach is threefold: correlation with the social studies, development of essential understandings, and science for hobbies and special interests. Content, grade level placement, materials and methods, books (especially new State Series) and references, audio-visual aids, free and inexpensive materials, and community resources. Co-ordination with the Demonstration School will provide for observation of actual teaching by carefully selected teachers. **201**

June 28 to August 6—SUMMER DRAMA PROGRAM: ACTIVITY PROJECTS (Dr. 90S, 190S, 1 to 3 quar. units). Designed to allow credit for participation in the plays of the summer, either acting or staging. Units will be granted on the basis of the amount of work done, estimated at five hours per week for one unit. **202**

June 28 to August 6—TRAINING SCHOOL FOR LIBRARIANS—Six courses each summer, three basic (*Reference, Cataloging, School Library Administration*), and three others (*Book Selection, Library and School Relationships, History of Books and Libraries*) rotated in such a manner as to enable students to complete the year course in four consecutive summers. For further details address Dora Smith, Head, Department of Librarianship. **203**

June 28 to August 6—WORKSHOP IN CURRICULUM MATERIALS (Ed. 118S; 10:00-11:00 daily, 3 quar. units; 10:00-12:00 daily, 6 units). A six-week workshop for teachers, supervisors, audio-visual directors, and others wishing to work on special projects involving curriculum materials. Co-ordinated with special methods courses offered in other departments. Participants may make intensive studies of newly produced films, filmstrips, textbooks, transcriptions, supplementary reference books, workbooks, exhibits, charts, specimens, free or inexpensive printed materials, and related items to be incorporated in curriculum units of their choice. Special attention will be given to group demonstrations of techniques of selecting, circulating, utilizing, and evaluating the effectiveness of the use of such materials in reaching teaching objectives. This workshop may also be used to satisfy the audio-visual aids requirement (Ed. 103) by arrangement with the instructor. The sixth week of the course involves participation in the Conference on Curriculum Materials (item 206, p. 238). **204**

June 28 to August 6—WORKSHOP IN EFFECTIVE CITIZENSHIP (Ed. 216S, 3 to 6 units). Field trips and seminar discussions designed to develop an understanding of methods of exploration and of group synthesis of experiences pertaining to the field of government and public affairs. The objective will be to demonstrate a methodology which can be used by teachers to make citizenship a vital, challenging subject. A background knowledge of American institutions, history, and current events is expected. H. Donald Fletcher, director of the Coro Foundation, San Francisco, instructor. **205**

August 2 to August 6—CONFERENCE ON CURRICULUM MATERIALS (Ed. 119S, 1½ quar. units). A one-week conference program during the sixth week of Summer Session (August 2-6). Each of five days will feature lecture-demonstrations, panel discussions, and group discussions of recent developments in educational television, educational films and filmstrips, textbooks and other printed curriculum materials, recordings, charts, and three-dimension exhibits and models. Participants in the conference will include visiting experts from education and industry as well as members of the college staff. This conference comprises the sixth week of activity for Ed. 103, 118, and 240; one and one-half quar. units granted to those registering only for the conference. 10:00-12:00 daily, and afternoon programs. **206**

August 9 to August 20 (two weeks)—CALIFORNIA AVIATION EDUCATION WORKSHOP (Ed. 259S, 3 quar. units), at Coyote Point Campus, San Mateo Junior College. Study of the many phases of aviation through selected lectures, field trips, directed study, and conferences. The development of units or course plans is emphasized: individual needs are met, dependent upon level and interests. Special attention is given to the techniques of using aviation to motivate learning in all areas of the curriculum. Full day sessions. Send application for enrollment to Tom Leonard, San Jose State College. **207**

SAN JOSE STATE COLLEGE SUMMER SESSION

At Hartnell College, Salinas

June 28 to August 6, 1954

John Lemos, President, Hartnell College

June 28 to August 6—ACTIVITY LABORATORY (I.A. 137AS, 3 quar. units). For elementary school teachers. Training in the design and construction of units to vitalize, clarify, and integrate subject-matter content; working with a wide variety of hand tools, simple machines, and such materials as wood, metal, glass, plaster, wire, cardboard, paper, fastenings, and hardware supplies. **208**

June 28 to August 6—KINDERGARTEN-PRIMARY WORKSHOP (Ed. 190S, 3 to 6 quar. units). A refresher course for experienced kindergarten-primary teachers; orientation for emergency teachers. Sections in program organization, social studies, story telling, language arts, reading, nature study, arts and crafts, music and rhythms, mental hygiene, health and physical education. **209**

STANFORD UNIVERSITY, Stanford, California

Summer Quarter (eight weeks): June 21 to August 17, 1954

Summer Sessions (four weeks): June 21 to July 20, 1954

July 21 to August 17, 1954

Tuition and Fees: Full-time (16 units), \$220 per quarter

Half-time (limit 8 units), \$125

Unit basis (graduates only), \$15 to \$20 per unit

Workshops and Institutes: \$35 (2 units), \$50 (3 units), \$65 (4 units); auditors, \$10 conference fee

June 21 to July 2—WORKSHOP IN SUPERVISION OF PHYSICAL EDUCATION (E354a, Elementary, 2 units, June 21 to June 25; E354b, Secondary, 2 units, June 28 to July 2). Sponsored jointly by the School of Education and the State Department of Education. For teachers, supervisors, and administrators. Emphasis on definition and function of supervision, basic principles, desirable practices; exploration of recent research. Consultants from U.S. Office of Education, University of Illinois, and California State Department of Education. **210**

June 21 to July 17, July 19 to August 17—HISPANIC AMERICAN INSTITUTE. Conducted by the faculty of Humanities and Sciences, bringing together a rich offering of courses and special features such as exhibitions, concerts, lectures, films, and theatrical performances emphasizing this year's theme, "The Population of Latin America," with ample opportunity for participation in Spanish-speaking groups. For further information, address Hispanic American Studies. **211**

June 21 to July 20—GUIDANCE WORKSHOP I (E339a, 8 units, daily 9:00 to 4:00). Comprehensive review of counseling theory and practice, with emphasis on practical synthesis among current schools of thought. Open to counselors, administrators, and teachers who have had training and experience in guidance work. Enrollment limited to 35. Admission subject to approval of director, Dr. H. B. McDaniel, School of Education. **212**

June 21 to August 17—STANFORD SUMMER RADIO-TELEVISION INSTITUTE. For advanced training in fields of radio broadcasting and telecasting and for training of teachers in the utilization of radio as an educational medium. Persons prominent nationally in the broadcasting industry are invited to conduct special lectures, seminars, and conferences. For further information, address Executive Head, Department of Speech and Drama. **213**

June 28 to August 6—ELEMENTARY DEMONSTRATION SCHOOL, kindergarten and elementary grades, made possible by co-operation of the Palo Alto City Board of Education in permitting the use of the Stanford Elementary School building and facilities. A laboratory for observation and demonstration of modern theory and practice, serving the professional students and faculty of the School of Education. **214**

June 28 to August 6—GUIDED OBSERVATION IN DEMONSTRATION SCHOOL (E243, 4 units). Enrollment limited to 20 selected students. Applicants should submit statements of qualifications to Workshop Secretary, School of Education, by June 1. **215**

July 12 to July 16—SCHOOL PLANNING INSTITUTE—PLANNING FOR TOMORROW'S HIGH SCHOOLS (E228, 2 units, daily 9:00 to 4:00). For school administrators, high school teachers, architects, and furniture and equipment representatives. Educational planning, financing, insurance, site selection and utilization. Apply directly to Dr. James D. MacConnell, director. **216**

July 12 to July 17—INSTITUTE FOR TEACHERS OF ENGLISH. Lectures on selected works of literature, conference discussions, workshops in planning teaching units. Brochure on request to Department of English. **217**

July 19 to July 23—STANFORD BUSINESS CONFERENCE. Offered annually for executives of the Pacific Coast region who wish to continue indefinitely their education in business. A week's session of morning lectures, afternoon roundtables, dinner meetings with prominent speakers. **218**

July 21 to August 17—GUIDANCE WORKSHOP II (E339b, 8 units, 9:00 to 4:00 daily). Opportunity for professional guidance workers to extend technical skills, plan new activities. Extensive and intensive study of guidance practices, counseling techniques, evaluative research. Open to directors and supervisors of guidance, full-time counselors and others who have had extensive work in guidance or psychology. Enrollment limited to 35. Admission subject to approval of director, Dr. H. B. McDaniel, School of Education. **219**

August 2 to August 13—WORKSHOP IN INTERGROUP EDUCATION (E211w, 4 units, 9:00 to 4:00 daily). Exploration of research, curriculum, and materials in intergroup education. Open to community leaders, school administrators, and teachers with experience in intergroup work or the equivalent in human relations activities. Directed by Herbert L. Seamans, National Conference of Christians and Jews, assisted by Hilda Taba and John Robinson of San Francisco State College. Enrollment limited. Scholarships available. Applicants should submit statements of qualifications to Workshop Secretary, School of Education, by June 15. **220**

August 18 to August 20—CONFERENCE ON POPULATION PROBLEMS OF LATIN AMERICA (AS148, The Hispanic World, 1 unit). Open to all summer quarter students without additional fees. For information address Hispanic American Studies, Stanford University. **221**

UNIVERSITY OF CALIFORNIA, BERKELEY

School of Education

Berkeley 4, California

Summer Session I: June 21 to July 31, 1954

Summer Session II: August 2 to September 1, 1954

Fee: \$51 per six-week session

A. R. Davis, *Dean of the College of Letters and Science, in charge*

June 7 to June 11—SEMINAR FOR COLLEGE INSTRUCTORS OF DRIVER EDUCATION. Invitational seminar for college instructors of driver education, to bring them up to date in teaching methods. Presented by the School of Education, University of California, in co-operation with the New York University Center for Safety Education, and the Association of Casualty and Surety Companies. No fee. By invitation only. **222**

June 14 to June 18—ADVANCED SEMINAR IN DRIVER EDUCATION (X338F, 1 unit). Critical evaluation of the methods and techniques of instruction in driver education and training, with particular emphasis on behind-the-wheel instruction. Consideration of current problems in administration and supervision of driver education, in relation to existing legislation. Fee, \$9. **223**

June 21 to July 3—HOUSEMOTHERS AND HEAD RESIDENTS CONFERENCE. Planned to offer practical help in management, in living and working with students, in maintenance of standards in manners and morals, public health, and personal and professional growth. Fee, \$100 (including board and room). **224**

June 21 to July 31—CLINICAL PRACTICE IN SPEECH THERAPY (Ed. 394S, 2 units). Supervised teaching in correction of speech defects and disorders. Special consideration of problems of speech development and correction as related to the public school. Special demonstration class and daily conference hour in which teacher and parent participate. **225**

June 21 to July 31—DEMONSTRATION ELEMENTARY SCHOOL. Conducted at Whittier University Elementary School. Daily demonstrations of modern elementary school learning situations, kindergarten and grades 1 to 6. Open to summer session students, especially those enrolled in courses in elementary education. Fee for children is \$25, \$7.50 of which is payable at the time of application. Application may be made by addressing the Secretary of the Demonstration Elementary School, Room 304, Haviland Hall, University of California, Berkeley 4. Enrollment is limited to the first 30 children applying for admission to each class. **226**

June 21 to July 31—ELEMENTARY EDUCATION WORKSHOP (Ed. 133G, Social Studies, John U. Michaelis, Instructor; Ed. 133L, Language, Ruth Willard, Instructor; Ed. 133S, Science, T. Bentley Edwards, Instructor; 2 units each). Study of problems in elementary education by means of group discussions, meetings, individual conferences, participation in creative activities, and observation in the Demonstration Elementary School. Opportunities for specialization in the preparation of curricular material. Emphasis upon solution of individual problems brought by participating teachers, superintendents, and elementary school principals. **227**

June 21 to August 31—SPEECH CLINIC

CLINIC FOR STUTTERERS. Available to adults and children over 12 years of age. Techniques for retraining of the speech mechanism and rebuilding of the mental and emotional life of the stutterer. Enrollment limited to 25. Fee, \$5.

2:00 to 3:00 daily. Address application to Mrs. Mabel Farrington Gifford, 860 California Street, San Francisco.

CLINIC FOR ARTICULATORY DIFFICULTIES. For adults and children. 8:00 to 9:00 a.m. daily.*

CLINIC FOR NERVOUS SPEECH. For children from 5 to 12 years of age. Enrollment limited to 20. 1:00 to 2:00 p.m. daily.* **228**

June 28 to August 20—**DEMONSTRATION SECONDARY SCHOOL.** Seventeenth annual Summer High School, conducted at Oakland Technical High School Building. University preparation, makeup, and review; arts, commercial subjects, English, English for foreign born, corrective reading, foreign languages, mathematics, music, physical education, social studies, and science. Application for pupil enrollment should be addressed to Robert E. Brownlee, 224 Building T-8, University of California, Berkeley 4. Classes open daily to summer session students for observation and for supervised teaching. Fee, for pupil \$15 for each subject. **229**

July 12 to July 23—**CONFERENCE IN NUTRITION (X400, 2 units).** Of interest to teachers, dieticians, nutritionists, and others professionally concerned with the science of nutrition; featuring recent research methods and new and applicable findings in nutrition. Fee, \$25. **230**

July 12 to July 23—**WORKSHOP IN FAMILY LIFE (X398, 2 units).** Recent research and new and applicable findings in family life of interest to teachers, social workers, adult education leaders, and others working in family life education. Fee, \$25. **231**

July 19 to July 30—**THIRTEENTH ANNUAL INSTITUTE OF PEACE OFFICERS' TRAINING.** Presented in co-operation with the Commission for Vocational Education of the State Department of Education. Designed to provide professional training in the specialized and technical aspects of law enforcement; to stimulate the development of new techniques and procedures in the police service; to furnish advanced training not otherwise provided; to further co-operation between law enforcement agencies; and to keep officers abreast of current practices and techniques. Fee, \$5. **232**

August 4, 5, 6—**SIXTH ANNUAL TRAINING SESSION FOR PROBATION, PAROLE AND INSTITUTIONAL WORKERS.** This annual intensive program provides workers with new ideas for use in their daily work based upon material which can be used as the basis for discussion in agency staff meetings. Fee (to be announced). **233**

UNIVERSITY OF CALIFORNIA, DAVIS

Special Summer Session: July 6 to August 14, 1954

Fee: \$51 per session

S. S. Sutherland, *Chairman, Department of Education*, in charge
(Address inquiries to Howard B. Shontz, Registrar, Davis Campus)

Regular summer sessions offering courses for advanced undergraduates and graduates will be conducted June 21 to July 30 and August 2 to September 11.

In addition to lower division courses in nonagricultural subjects for regular students and for prospective students who need to remove minor admission deficiencies, the Special Summer Session is designed to provide upper division and graduate courses in agriculture and education for interested agricultural students, *vocational agriculture teachers*, and agricultural extension personnel who wish to keep abreast of developments in their fields and to progress toward degree objectives. Courses to be featured include the following:

SUPERVISION OF SECONDARY EDUCATION (Ed. S273, 2 units), James C. Stone, Specialist in Teacher Education, State Department of Education, instructor. **234**

* Requests for applications for admission to these clinics and the Demonstration Class should be made to Mrs. Georgia Cooper, 1024 Atlantic Street, Concord, California.

AGRICULTURAL ENGINEERING (S198, 2 units), emphasizing methods and materials in teaching advanced classes in farm mechanics, with special emphasis on farm machinery maintenance, operation, and repair. **235**

UNIVERSITY OF CALIFORNIA, LOS ANGELES

405 Hilgard Avenue, Los Angeles 24

Summer Session (eight weeks): June 21 to August 14, 1954

Fee: \$68 for eight weeks

Clarence Fielstra, Assistant Dean, School of Education, in charge of Summer Session Program in Education

June 21 to July 17—THE JUNIOR COLLEGE, A WORKSHOP (Ed. 179W, 4 units). Examination of principles, trends, and practices in the improvement of junior college instruction. For junior college teachers, administrators, and librarians, and for students preparing for junior college positions. **236**

June 21 to July 17—PRACTICUM IN EARLY CHILDHOOD EDUCATION (Ed. 127P, 4 units, 9:00 to 4:00 daily). Education of children between the ages of 4 and 6, through study groups, workshops, trips, discussion of parent-teacher-child relationships and observation of children in schools. For teachers, principals, and supervisors. Enrollment limited. Tuition, \$34 for those not otherwise enrolled. **237**

June 21 to July 17—SCHOOL HEALTH EDUCATION WORKSHOP (4 units, graduate). For members of the "School Health Team"—administrators, board members, teachers, health co-ordinators, nurses, school physicians, dentists, community leaders, and parents. Eight staff members, eight consultants, 17 co-operating organizations. Emphasis on vital problems, resources, planning, and action to improve the quantity and quality of school-community health education. General sessions, discussion groups, individual study and guidance conferences. Fee, \$34. Scholarships are available. For further information address Dr. Edward B. Johns, Workshop co-ordinator, Department of Physical Education. **238**

June 21 to July 16—WORKSHOP IN THE TEACHING OF SCIENCE IN THE ELEMENTARY SCHOOL (Ed. 138W, 2 units). Science experience for pupils in elementary and junior high schools. Utilizing community resources, arranging room environment, preparing desirable instruction materials and apparatus. Lecture and discussion followed by laboratory and construction period. Tuition, \$34. **239**

June 21 to July 31—HUMAN DEVELOPMENT WORKSHOP (Ed. 111W, 6 units, 8:00 to 3:00 daily). For teachers, administrators, supervisors, psychologists, and others engaged or interested in child study programs or the general field of human development. Lectures, seminars, laboratory work with case materials. Admission based on consultation with instructors. **240**

June 21 to July 31—WORKSHOP IN ART FOR SECONDARY TEACHERS (Art 193, 1 to 3 units). Creative studio experiences in art to broaden and develop creative teachers in service. Opportunities to experiment in art mediums in which experience has been limited. 10:00 to 12:00 daily. **241**

June 28 to August 6—A CLINICAL SCHOOL. 9:00 to 12:00 daily. Specializing in remedial education, the school will be conducted for children and adults of normal intelligence who have difficulty with reading, spelling, mathematics, and other school subjects. Members of the class in Psychology S167B will be given opportunity to learn the application of remedial techniques in basic school subjects by observing and assisting in the classroom. Tuition for pupils, \$75. Application for enrollment should be made as soon as possible after April 1. **242**

June 28 to August 6—AN ELEMENTARY DEMONSTRATION SCHOOL. Consisting of nursery school, kindergarten, and grades one to six; maintained for the purpose of demonstrating the functions and operation of a modern elementary school. The school activities may be observed by teachers, supervisors, administrators and others enrolled in summer session classes. Such observation will form the basis of conferences and discussions. **243**

June 21 to July 31—WORKSHOP IN ART FOR ELEMENTARY TEACHERS (Art 192, 1 to 3 units). Creative studio experiences to meet the needs of elementary teachers, with opportunities for experimenting with a variety of art mediums suited to the elementary school level. 8:00 to 10:00 daily. **244**

June 21 to August 14—PRACTICUM IN SCHOOL ADMINISTRATION (Ed. 240P, 2 units). Practical, creative projects and investigations dealing with actual problems in school administration. Enrolees are invited to bring with them accurate, detailed descriptions of situations and projects on which they need help and want to work. Thursdays 4:00 to 6:00 and 7:00 to 9:00 p.m. **245**

June 21 to August 14—SUPERVISION OF THE EXPERIENCE PROGRAM IN THE ELEMENTARY SCHOOL (Ed. 132, 4 units). For principals, general supervisors, supervisors of student teachers, and classroom teachers interested in supervision. Study of the meaning and practices of the experience program through guided observations in the Demonstration School, actual practice in supervisory techniques with group evaluation, critical analysis of learning experiences, needs and teachers and student teachers. Prerequisite: Ed. 131A or equivalent. T-Th 2:00 to 4:00 p.m., observation 9:00 and 10:00 a.m. daily. **246**

July 6 to July 16—FOURTH ANNUAL CONFERENCE FOR TEACHERS OF MATHEMATICS (2 units). Sponsored by the University in co-operation with the California Mathematics Council. General sessions, lectures, panel discussions, campus tours, and study groups will meet a wide variety of interests. Of special note are the laboratory groups where teachers may actually learn to make many of the modern teaching aids. For further information address the Director of the Conference, Clifford Bell, Mathematics Extension. **247**

July 6 to July 31—PRACTICUM IN THE ORGANIZATION AND SUPERVISION OF THE ELEMENTARY SCHOOL (Ed. 132T, 4 units). Analysis of problems of supervisors, directors of instruction and curriculum, principals, and teachers preparing for supervisory and administrative service. Emphasis on the social studies. Tuition, \$34 for those not otherwise enrolled in the 8-week session. Directed observation, 9:00-11:00; analysis of supervisory problems, 11:00 to 12:00; study and discussion, 2:00 to 4:30 daily. Helen Heffernan, State Department of Education, director. **248**

August 15 to August 17—WESTERN TRAINING LABORATORY IN GROUP DEVELOPMENT. Conducted at Idyllwild, Riverside County, by University Extension. Designed to help participants to become more effective as group leaders and members by developing their understanding and skills in dealing with people. Recommended by the University for school, hospital, government, union, and military personnel, public relations consultants, religious education and social welfare workers, community organization leaders. Enrollment limited to 96. **249**

UNIVERSITY OF CALIFORNIA, SANTA BARBARA COLLEGE, Santa Barbara

Summer Session: June 28 to August 6, 1954

Fee: \$51 for the session

Provost J. Harold Williams, in charge

June 28 to August 6—DEMONSTRATION SCHOOL, for classes in kindergarten, grades one through six, and in special subjects. Fee for pupil enrollment, \$15 for six weeks. Open for observation by summer session students in courses in early childhood and elementary school curriculum. **250**

A SPECIAL ROOM FOR REMEDIAL WORK will be organized for children who have difficulties in reading, spelling, arithmetic, or speech. Special instruction will be given to small groups for one hour daily during the summer session. Fee for attendance one hour daily, \$15. Enrollment of pupils in this class will be based upon recommendations by the guidance department of Santa Barbara Public Schools, or of the chairman of the College department of education. Opportunity will be offered to a limited number of summer session students to participate as teachers in this remedial instruction. **251**

July 22 to July 31—1954 WORKSHOP IN ADULT EDUCATION, Montecito School, Santa Barbara (2 units). Jointly sponsored by Bureau of Adult Education, State Department of Education, University of California Extension, and California Congress of Parents and Teachers. Special sections will be led by currently active professional workers, among them a section on *Leadership Training in Parent Education* which will emphasize the application of group dynamics to parent education leadership. The California Congress of Parents and Teachers has provided 20 scholarships of \$100 each, primarily for parent education leaders who will apply their workshop experience to the training of lay leaders in local communities. Enrollment in this section will be limited to 20. **252**

Expenses for the Workshop will amount to \$82, including room, board, and tuition. Applicants for admission to the Workshop should be sent to Bureau of Adult Education, State Department of Education, Sacramento 14.

August 9 to August 21—Twenty-second ANNUAL INSTITUTE OF NATURE STUDY AND CONSERVATION (2 units in biological sciences). Field classes in seashore life, native birds, rocks and minerals, western trees, elementary science methods, insects, astronomy, and conservation principles. Techniques of presenting nature-study materials and conservation education; field trips and demonstrations. Conducted by University of California Extension in co-operation with the Santa Barbara Museum of Natural History and the Santa Barbara Botanic Garden. Leisure time for participation in the traditional Santa Barbara Fiesta, August 11-14. Address inquiries to University of California Extension, 906 Santa Barbara St., Santa Barbara. **253**

UNIVERSITY OF REDLANDS

Redlands, California

First Summer Session: June 21 to July 23, 1954

Second Summer Session: July 26 to August 27, 1954

Fees: \$16 per semester unit; registration, \$5

Vernon O. Tolle, Director of Summer Sessions

June 21 to July 23—DEMONSTRATION ELEMENTARY SCHOOL, for the twelfth consecutive summer, provides opportunity for observation of modern teaching techniques in kindergarten and grades one to six. Various summer session courses will be correlated closely with the program in progress in the Demonstration School. College students who may wish to enroll their own children in the Demonstration School should send their applications as early as possible to the Director of Summer Sessions. **254**

June 21 to July 23—MUSIC AND DRAMA PRODUCTION (Speech 190, 2 or 4 units). This is a natural outgrowth of the community productions of the past two summers in the Redlands Bowl. The work will be in charge of Prof. Erwin Ruff of the School of Music, who is musical director of Bowl productions, and Albert and Bertha Johnson, drama directors of Bowl productions. Students will participate by acting, singing, playing in the orchestra, working on lighting, costuming, stage managing, assisting in directing and conducting. Theory and technique related to actual performance. **255**

June 28 to July 9—WORKSHOP ON CURRENT TRENDS IN EDUCATION (Ed. 243, 2 units). A forum workshop, with daily addresses by ten educators, followed by discussion by panels of students. Conducted during the second and third weeks of the first session, from 1:30 to 4:50 p.m. daily. **256**

June 29 to September 2—STUDY TOUR: THE MAGIC OF EUROPE (Comparative Government 189, 2 units; Comparative Education, 4 units). Includes England, Norway, Sweden, Denmark, Germany, Switzerland, Italy, and France. Leader: George H. Armacost, President, University of Redlands. **257**

July 5 to July 23—WORKSHOP ON TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (Ed. 138, Workshop A, 2 or 3 units). To help the teacher carry out a science program in the elementary school. Covers both natural and physical science, offering suggestions both for utilizing science materials brought into the classroom by pupils and for incorporating science into social studies units. Collection and care of living plants and animals, arrangement and display of materials, making simple equipment, setting up experiments, demonstrating simple scientific facts. Offered during the last three weeks of the first session, repeated first three weeks of second session. Wallace T. Stoebe, in charge. **258**

July 14 and 15—SEVENTH ANNUAL CONFERENCE OF ADMINISTRATORS, SUPERVISORS, AND SCHOOL BOARD MEMBERS. Sponsored annually by the University in co-operation with Section 2 of the California Association of School Administrators. Pertinent current problems of school administrators and board members will be discussed. No registration fee. Lodging at nominal rates for those who desire it. Address inquiries to Dr. Frank E. Bishop, Associate Professor of Education, who will be in charge of the Conference. **259**

July 26 to August 6—WORKSHOP IN AUDIO-VISUAL EDUCATION (Ed. 189, 2 units). Theory, demonstration, and practice; development of technical skill, correlation with classroom programs; presentation of a project which will demonstrate competence in planning, organization, execution, and evaluation. Open only to students who are classroom teachers or who will teach in 1954-55. Merton B. Osborn, instructor. **260**

July 26 to August 13—WORKSHOP ON TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (Ed. 138, Workshop B, 2 units). Daily, 1:30 to 4:50 p.m. **261**

July 26 to August 27—WORKSHOP IN THE TEACHING OF JOURNALISM. (Ed. 130, 2 units). For advisers of school publications. Emphasis on techniques of advising in the production of yearbooks and newspapers. Discussion of problems of photography, makeup recruitment of office staff, letterpress *vs.* offset, management of publications, and techniques of good writing. Gilbert Brown, instructor, will be assisted by visiting printers, engravers, and experts in the field of writing. **262**

August 16 to August 27—INTERCULTURAL EDUCATION WORKSHOP (Ed. 196, 2 units). The problems of a multicultural society; techniques and materials to develop insight into causes of intergroup tensions and to improve human relationships; sociometric tests, reaction stories, role playing, and the use of literature to build understanding. Mrs. Afton Dill Nance, Consultant in Elementary of Education, State Department of Education, will be the instructor in charge. **263**

UNIVERSITY OF SOUTHERN CALIFORNIA

3518 University Avenue, Los Angeles 7

Summer sessions: Ten weeks, June 21 to August 27

Six weeks, June 21 to July 30

Four weeks (Post Session), August 2 to 27

John D. Cooke, Dean of the Summer Sessions

June 21 to July 2—JUNIOR COLLEGE ADMINISTRATION (Ed Bu 563, 2 units), for junior college personnel. Internal organization, functions of administrative and supervisory personnel, financial structure and management, physical facilities, community relationships. Prerequisites. Daily, 8:00 to 11:53 a.m. **264**

June 21 to July 9—WORKSHOP IN PASTORAL COUNSELING (Rel. 593, 3 units). Criteria for guidance in personality growth and rehabilitation; administration and interpretation of personality tests; case histories and clinical aspects of counseling. Daily, 9:00 to 11:45 a.m. **265**

June 21 to July 31—ART WORKSHOPS (Art 410ab, 2 to 4 units; Art 510ab, Advanced, 2 to 4 units). Techniques and skills in arts exploration for secondary classroom teachers; advanced problems for secondary art teachers. **266**

- June 21 to July 31—**CORRECTIVE READING LABORATORY** (Ed El 535, 2 units). Observation and participation in the diagnosis of reading deficiencies and the teaching of corrective reading to children experiencing difficulties in elementary or secondary school reading. Prerequisite: Ed El 428 or teaching experience. **267**
- June 21 to July 31—**CURRICULUM WORKSHOP IN SCIENCE FOR ELEMENTARY TEACHERS** (Ed El 517, 2 units). Curriculum planning, instructional materials, modern methods of teaching, recent research and its application in the classroom. Open only to experienced teachers, supervisors, and administrators. Under direction of Hildegard Hartig, science co-ordinator, San Diego State College. **268**
- June 21 to July 31—**DEMONSTRATION SCHOOL** (Thirty-second Street Elementary School). In co-operation with the Los Angeles City Board of Education, the University is able to provide opportunities for observing newer techniques of teaching all school subjects in a modern elementary school. Summer session students who are enrolled in Observation of Newer Practices in Elementary School (Ed El 431), will observe at a specified hour five days a week. **269**
- June 21 to July 31—**TEACHERS' WORKSHOP IN CONTEMPORARY WORLD AFFAIRS** (Ed Se 565, 2 to 4 units). Techniques and methods in teaching world affairs on the secondary level. Problems of study organization, content, and procedures. Co-requisite: International Relations 565. **270**
- June 21 to July 31—**TELECOMMUNICATIONS WORKSHOP** (Tele 490, 2 units). Radio in the school, with emphasis on operation of radio workshop; use of drama, writing, speech, history, and other subjects; programs for broadcasts, assemblies, PTA meetings. Actual practice in preparing radio programs. **271**
- June 21 to July 31—**WORKSHOP IN GUIDANCE** (Ed Gu 645, 3 units). Problems in counseling and guidance; group conferences, individual and group projects, laboratory and field experiences. Limited to 30 students. Prerequisites: Guidance 540ab and counseling experience. **272**
- June 21 to July 31—**WORKSHOP IN HUMAN NUTRITION** (Biochem. 402, 2 units). Application of fundamentals to problems of particular interest to the student, such as developing methods of nutrition education at various school levels. Co-requisite: Biochem. 401, Fundamentals of Human Nutrition. **273**
- July 9, 16, and 23—**CONFERENCES FOR SCHOOL ADMINISTRATORS**. The School of Education invites school administrators and other educators to participate in the discussions of these conferences. Three all-day sessions. Programs and schedule to be announced in supplementary leaflet obtainable on request to the Dean of the Summer Sessions. **274**
- July 12 to July 30—**SALIENT FEATURES OF WORLD RELIGIONS** (Rel 530, 3 units). Interpretation of the fundamental insights, concepts, ideals, and customs of the major religious traditions. Daily, 9:00 to 11:45 a.m. **275**
- August 2 to August 27—**WORKSHOP: THE FILM IN COMMUNICATION** (Cinema 610, 4 units). Daily, 8:00 a.m. to 12:00. **276**
- August 2 to August 27—**WORKSHOP IN INDUSTRIAL ARTS TEACHING AIDS** (Ed Ia 447, 2 units). Construction of effective teaching aids, such as student management systems, roll call and student responsibility devices, models, charts, and demonstration materials. Prerequisite: Teaching experience.
- This workshop is part of an intensive graduate professional program in Industrial Arts Education, open to persons holding the Special Secondary Credential in Industrial Arts Education or who have had equivalent training and experience in this field. **277**
- IDYLLWILD SCHOOL OF MUSIC AND THE ARTS**. Courses of workshop type for credit are offered during the summer at the Idyllwild School of Music and the Arts, Idyllwild, Riverside County, in music, arts and crafts, the dance, and drama. The School also offers a program for high school students which includes chorus,

orchestra, band, and a dance and light opera workshop. Further information can be secured by addressing Dr. Max T. Krone, Professor of Music Education, University of Southern California. **278**

INSTITUTE OF BUSINESS ECONOMICS, to promote better understanding of free enterprise capitalism. The work is carried on at one or more sessions each summer, by means of informal discussions between 35 selected business executives as participants and a faculty team of six. **279**

WHITTIER COLLEGE

Whittier

First Summer Session: June 21 to July 30, 1954

Second Summer Session: August 2 to August 27, 1954

Tuition: \$14 per unit

Harold F. Spencer, Dean and Director of Summer Sessions

June 21 to July 30—READING CLINIC. Children of all ages will be enrolled to receive assistance in the improvement of their reading. Advanced and beginning student clinicians will have the opportunity to do actually corrective work under supervision. **280**

June 21 to July 30—SPEECH AND HEARING CLINIC. Approximately 50 children and adults will be enrolled to receive clinical assistance in correction of speech and hearing defects. Advanced and beginning student clinicians will have the opportunity to do actual corrective work under supervision. **281**

June 21 to July 30—SUMMER DEMONSTRATION KINDERGARTEN. Operated in Broadoaks School on Whittier campus. Courses in "Kindergarten Curriculum and Methods" and "School Orientation—Supervised Observation" will be offered. **282**

June 21 to July 30—WORKSHOPS IN SCHOOL ADMINISTRATION:

June 21 to July 2—PUBLIC SCHOOL FINANCE AND BUSINESS ADMINISTRATION (2 units). Dean E. Triggs, Ventura County Superintendent of Schools, instructor.

July 5 to July 16—FEDERAL, STATE, COUNTY, DISTRICT SCHOOL ORGANIZATION AND ADMINISTRATION (2 units). C. C. Trillingham, Los Angeles County Superintendent of School, instructor.

July 19 to July 30—ORGANIZATION AND ADMINISTRATION OF THE ELEMENTARY SCHOOL (2 units). Norman B. Scharer, Superintendent, San Gabriel City Elementary School District, instructor. **283**

June 26 to July 4—TWENTIETH INSTITUTE OF INTERNATIONAL RELATIONS. Under the auspices of the American Friends Service Committee. Authorities from this country as well as from abroad will participate. **284**

August 2 to August 13—WORKSHOP IN THE TEACHING OF READING (2 units). Marion Monroe Cox, Lecturer and Consultant in Education, instructor. **285**

August 2 to August 27—SUMMER DEMONSTRATION NURSERY SCHOOL. Operated in Broadoaks School on Whittier campus. Veola M. Wrinkle, demonstration teacher, will teach courses in "School Orientation—Supervised Observation" and "Directed Teaching in Nursery School." **286**

August 16 to August 20—WORKSHOP IN STUDENT TEACHING (1 unit). In collaboration with the National Association of Student Teachers a workshop will be conducted for supervising teachers, college, co-ordinators and administrators. John H. Bright, Professor of Education, instructor. **287**

August 16 to August 27—WORKSHOP IN ELEMENTARY SCHOOL ART (2 units). Beth Perkins, Visiting Lecturer in Art, instructor. **288**

August 16 to August 27—WORKSHOP IN SCHOOL ADMINISTRATION: PRINCIPLES AND METHODS OF SUPERVISION (2 units). A. John Bartky, Professor of Education, Stanford University, instructor. **289**

SUBJECT INDEX TO SUMMER SESSION FEATURES, 1954

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DIRECTORY

OF THE CALIFORNIA STATE DEPARTMENT OF EDUCATION

STATE BOARD OF EDUCATION

Term Expires
January 15

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(Unless otherwise indicated, all staff members may be reached at the State Education Building, 721 Capitol Avenue, Sacramento 14)

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